SERVICE MANUAL

FE-1 CHASSIS

MODEL	COMMANDE	R DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-25X5A	RM-883	Italian	SCC-Q06E-A	KV-25X5K	RM-883	OIRT	SCC-Q03E-A
KV-25X5B	RM-883	French	SCC-Q02E-A	KV-25X5L	RM-883	Irish	SCC-Q07B-A
KV-25X5D	RM-883	AEP	SCC-Q04E-A	KV-25X5R	RM-883	OIRT	SCC-Q03F-A
KV-25X5E	RM-883	Spanish	SCC-Q05E-A	KV-25X5U	RM-883	UK	SCC-Q01D-A









ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian	B/G/H	GERMAN Stereo	ITALIA VHF: A-H2 (C) UHF: 21-69 PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10	PAL NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, D/K, L, I	GERMAN/NICAM Stereo	L VHF: F02-F10 UHF: F21-F60 CABLE: B-Q B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H2 (C) UHF: 21-69 I UHF: B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H2 (C) UHF: 21-69 D/K VHF: R01-R12 UHF: R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, D/K	KV-25X5K GERMAN/NICAM Stereo KV-25X5R GERMAN Stero	B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 D/K VHF : R01-R12 UHF : R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Irish	I	NICAM Stereo	VHF : A-C, D-J VHF : 21-69 CABLE CHANNELS S1-S20 HYPERBAND S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	1	NICAM Stereo	UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	25X5A	25X5B	25X5D	25X5E	25X5K	25X5L	25X5R	25X5U
Power Consumption	89W	97W	97W	97W	97W	139W	97W	139W

[PICTURE TUBE] Super Trinitron

Approx. 63cm (25 inches) (Approx. 59cm picture measured

diagonally)

110 degree deflection

Input/Output Terminals

[REAR]

⊕1/1-\(\overline{\overlin

- Inputs for Audio and Video signals.

- Inputs for RGB.

Outputs of TV Video and Audio signals.

⇒2/→\$2 21-pin Euro connector.

- inputs for Audio and Video signals.

- inputs for S Video.

- outputs for Audio and Video signals (selectable).

→ Phono Jack

- Outputs for Audio Signals

[FRONT]

→ 3 Video input - phono jack

→3 Audio inputs - phono jacks

── S Video input 4 pin DIN

Headphone jacks: stereo minijack

Sound output 2 x 20W (Music Power)

Power requirements 220 - 240V

Dimensions Approx 593x502x506mm

Weight Approx 33.2kg

Supplied accessories RM-883 Remote Commander (1) IEC designated R6 battery (1)

Other features NICAM*, FASTEXT, TOPTEXT *(KV-25X5B/25X5E/25X5K/25X5L/25X5U

only)

[RM-883]

Power requirements 1.5V dc

1 battery IEC designation

R6 (size AA)

Dimensions Approx 65x225x21mm (w/h/d)
Weight Approx 157g (Not including battery)

Design and specifications are subject to change without notice.

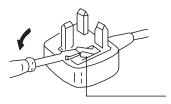
Model Name	KV-25X5A	KV-25X5B	KV-25X5D	KV-25X5E	KV-25X5K	KV-25X5L	KV-25X5R	KV-25X5U
Pal Comb	OFF							
PIP	OFF							
RGB Priority	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
Woofer Box	OFF							
Scart 1	ON							
Scart 2	ON							
Front in (3)	ON							
Scart 4	OFF							
Projector	OFF							
AKB in 16:9 mode	ON							
Norm B/G	ON	ON	ON	ON	ON	OFF	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	ON	OFF	ON
Norm D/K	OFF	ON	ON	ON	ON	OFF	ON	OFF
Norm AUS	OFF							
Norm L	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
Norm SAT	OFF							
Norm M	OFF							
Teletext	ON							
Nicam Stereo	OFF	ON	OFF	ON	ON	ON	OFF	ON
Language Preset	Italian	French	German	Spanish	OIRT	English	OIRT	English

WARNING (KV-25X5L / KV-25X5U only)

The flexible mains lead is supplied connected to a **B.S.** 1363 fused plug having a fuse of 5 **AMP** capacity. Should the fuse need to be replaced, use a 5 **AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE OUTLET SOCKET.

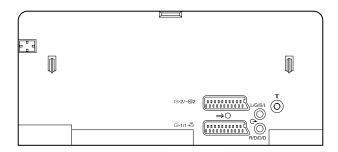
When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.

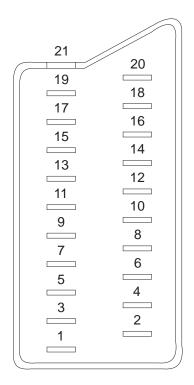


How to replace the fuse. Open the fuse compartment with a screwdriver blade and replace the fuse.

FUSE

21 pin connector (\hookrightarrow 1/1 \rightarrow $\stackrel{\bullet\bullet\bullet}{\bigcirc}$, \hookrightarrow 2 / \multimap S 2)





Pin No	1	2	4	Signal	Signal level
1	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	0	0	0	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	0	0	0	Ground (audio)	
5	0	0	0	Ground (blue)	
6	0	0	0	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	0	•	•	Blue input	0.7 +/- 3dB, 75 ohms positive
8	0	0	0	Function select (AV control)	High state (9.5-12V): Part mode Low state (0-2V): TV mode Input impedence: More than 10K ohms Input capacitance: Less than 2nF
9	0	0	0	Ground (green)	
10	0	0	0	Open	
11	0	•	•	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	0	0	0	Open	
13	0	0	0	Ground (red)	
14	0	0	0	Ground (blanking)	
45	0	-	ı	Red input	0.7 +/- 3dB, 75 ohms, positive
15	-	0	0	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	0	•	•	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	0	0	0	Ground (video output)	
18	0	0	0	Ground (video input)	
19	0	0	0	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	0	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	-	0	0	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	0	0	0	Common ground (plug, shield)	

Ocnnected Not Connected (open) * at 20Hz - 20kHz

Pin No	Signal Signal level	
1	Ground	
2	Ground	
3	Y (S signal) input	1V+/- 3dB 75 ohm, positive Sync 0.3V -3/+10dB
4	C (S signal) input	0.3V+/- 3dB 75 ohm, positive Sync

		0
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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP

WARNING!!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARKED \triangle ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE. LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

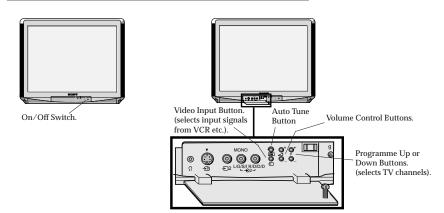
ATTENTION AUX COMPOSANTS RELATIFS Á LA SÈCURITÈ !!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE A SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

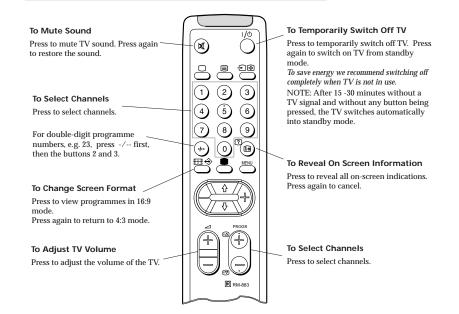
Basic TV Features

တ

Overview of TV Buttons



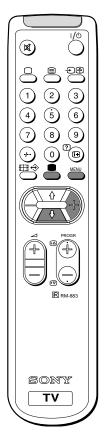
Overview of Remote Control Buttons



Additional TV Features

Using Select Mode

You can select different preset picture and sound modes.



1 Press the MENU button on the remote control to display the menu on the TV screen.



2 With the cursor pointing at the symbol on the TV screen as shown, press the yellow button.



3 Press the blue button to select the desired mode:



reverts to settings made in "Adjusting the Picture and Sound" sections of the manual



- for programmes broadcast live
- 4 Press the MENU button to remove the menu display from the TV screen.

Note: The mode selected in step 3 is now stored.

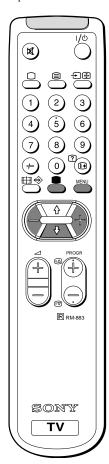
Changing Modes Quickly

- 1 Press the button on the remote control to display the three different modes.
- 2 Press the button again to select your desired



Adjusting the Picture

Although the picture is adjusted at the factory, you can modify it to suit your own requirement. $\,$



1 Press the button on the remote control to display the three different modes on the TV screen

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OFF

▶ □

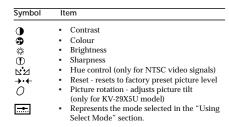
OFF

1000000000-----

111111111111111-----

100000000-----

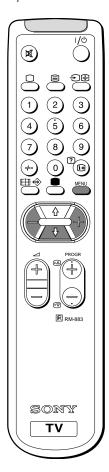
- 2 Press the button to highlight the user mode symbol as shown.
- **3** Press the MENU button to display the menu on the TV screen.
- 4 Press the blue button on the control to select the symbol on the TV screen then press the yellow button.
- **5** Press the blue button to select the item you wish to change (see below).
- **6** Press the red or yellow button to alter the selected
- 7 Press the MENU button to remove the menu display from the TV screen.





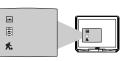
Adjusting the Sound

Although the sound is adjusted at the factory, you can modify it to suit your own requirement.



- 1 Press the button on the remote control to display the three different modes on the TV screen
- 2 Press the button to highlight the user mode symbol _____ as shown.
- **3** Press the MENU button to display the menu on the TV screen.
- **4** Press the blue button to select the ♪ symbol on the TV screen then press the yellow button.
- 5 Press the blue button to select the item you wish to change (see below).
- **6** Press the red or yellow button to alter the selected item
- 7 Press the MENU button to remove the menu display from the TV screen.

Symbol	Item
日日	Mono sound/Stereo sound A: Channel 1 sound/B: Channel 2 sound (to select your desired language from a
	dual sound broadcast)
DSP	 On/Off (digital sound processor)
\$?:	Treble
Ž:	 Bass
$\triangle \triangle$	Balance
→· ←	 Reset (resets to factory preset sound level)
	 Represents the mode selected in the "Using Select Mode" section of the manual.











1 Press the MENU button on the remote control to display the menu on the TV screen.



2 Press the blue button on the control to select the ① symbol on the TV screen, then press the yellow



3 Press the yellow button repeatedly until the required amount of time delay appears on the



4 Once the time delay has been selected, press the MENU button to remove the on-screen display.





Notes:

- · When watching TV, press the [+] button to display time remaining.
- · To return to normal operation from standby mode, press the | / (b button.

Viewing Teletext

Teletext is an information service transmitted by most TV stations.



Selecting Teletext

- 1 Press a number button on the remote control to select the channel which carries the teletext service vou wish to receive.
- $\boldsymbol{2}$ Press the $\boldsymbol{\ensuremath{\trianglerighteq}}$ button on the remote control to switch



- **3** Input three digits for the page number using the numbered buttons on the control.
- **4** Press the \(\sigma\) button to switch off teletext.

Note: Teletext errors may occur if the broadcasting signals are weak.

Using Other Teletext Functions

To Superimpose Teletext on to the TV

Press once in teletext mode or twice in TV mode to superimpose teletext on to the TV screen.

Press again to cancel teletext mode.

To Move to Next or Preceding Page

Press PROGR +/- on the remote control to select the previous or next page.

To Freeze a Teletext Page

Press an on the control to freeze the page.

Press again to cancel the freeze.

Revealing concealed information (eg: answers to a quiz).

Press ? to reveal information.

Press again to conceal the information.

Using colour buttons to access pages (Fastext)

When the colour coded menu appears at the bottom of a page, press the colour button (green, red, yellow or blue) to access the corresponding page.



Exchanging Programme Positions

After tuning you may wish to change the order in which the channels appear on the TV. You may wish for example to exchange the channel on programme number 8 with the channel on programme number 4.



SONTY

TV

9

1 Press the MENU button on the remote control.



2 Press the blue button on the control to select \forall on the TV screen, then press the yellow button.



3 Press the blue button to select ₹5 then press the yellow button.



4 With the cursor pointing at PROGR on the TV screen as shown, press PROGR + or - button until the channel you wish to rearrange appears on screen, then press the blue button once.



5 Press the red or yellow button to select the new programme number (e.g. PROGR 04) for your selected channel.



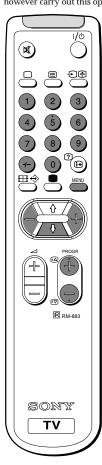
6 Press the blue button to select **♦** then press the yellow button to exchange the channels.

PROGR -+ 04 ▶ �

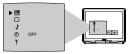
- **7** Repeat steps 4 to 6 if you wish to change the order of the other channels on your TV, then press MENU to return to normal TV screen.
- 8 Press the PROGR+/- button to view your selected channels on their new programme numbers.

Manually Tuning the TV

You have already tuned the TV to receive all available channels using the `Automatically Tuning the TV' procedure at the start of this manual. You can however carry out this operation manually using the following instructions.



1 Press the MENU button on the remote control to display the menu on the TV screen.



 ${f 2}$ Press the blue button to select the ${f Y}$ symbol on the TV screen then press the yellow button.



3 With the cursor pointing at PROGR on the TV screen as shown, press PROGR + or - button on the remote control to allocate a programme number to the channel (eg PROGR 01). For double digit numbers e.g. 55, press the -/-- button on the remote control then the corresponding numbered buttons.



4 Press the blue button to select the tuning bar scale then press the yellow or red button once to start the channel search. (Yellow to search up the scale or red to search down). When a channel is found it appears on the TV screen.



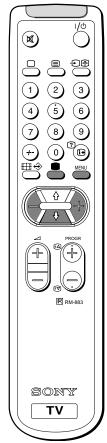
5 If you do not wish to store this channel on the programme number you selected, press the yellow or red button to continue searching for the desired channel.



- **6** If this is the channel you wish to store, press the blue button to select the *⇒* symbol on the screen then press the yellow button to store.
- **7** Repeat steps 3 to 6 if you wish to store more channels then press the MENU button to remove the menu from the TV screen.

Fine-Tuning Channels

If a channel is slightly off tune, you can use this fine tune procedure to obtain a better picture reception.



1 With the channel you wish to fine-tune on the screen, press the MENU button on the remote control. The menu display appears on the TV screen.





3 Press the blue button to select the ←F→ symbol on the TV screen then press the red or yellow button to adjust the tuning.



 $\begin{tabular}{ll} \bf 4 & Press the blue button to select the $$\geqslant$ symbol on the TV screen then press the yellow button to store. \end{tabular}$



5 Press the MENU button to remove the menu from the TV screen.

Using Optional Equipment

You can connect optional audio or video equipment to your TV, such as a VCR, a camcorder or video games as shown.

Select and View the Input Signal

- **1** Connect your equipment to the designated TV socket.
- 2 Press the € button repeatedly on your remote control until the correct input symbol appears on the TV screen.

Symbol Input signals

• Audio/video input signal through the Euro AV

• RGB input signal through the Euro AV connector

• Audio/video input signal through the Euro AV connector
or the phono sockets
or and
or

S video input signal through the socket B.

- **3** Switch on the connected equipment.
- $\boldsymbol{4}$. To return to normal TV picture, press the \bigcirc button on the remote control.

Note: To avoid picture distortion, do not connect equipment to the **B**, **C** or **E** connectors at the same time.

Additional Information

Connecting a VCR

We recommend you tune in the VCR signal to TV programme number `0' using the `Manually Tuning in the TV' section of this instruction manual.

Connecting Headphones

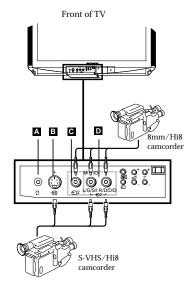
Plug in your headphones to the socket A on the front of the TV set.

Connecting Decoders

Plug in decoders to the socket F on the rear of the TV.

Connecting to External Audio Equipment

Plug in your Hi-Fi equipment to the **G** sockets on the rear of the TV if you wish to amplify the audio output from the TV.



Rear of TV Playstation Playstation VCR HI-Fi

Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

No picture (screen is dark), no sound	 Plug the TV in. Press the ① button on the front of TV. If the ② indicator is on press 1/② button
	or a programme number button on the remote control. Check the aerial connection. Check that the selected video source is on. Turn the TV off for 3 or 4 seconds and then turn it on again using the ⊕ button on the front of the TV.
Poor or no picture (screen is dark), but good sound.	 Using the MENU system, select the Picture Adjustment display. Adjust the brightness, picture and colour balance levels. From the Picture Adjustment display select → to return to the factory settings.
Poor picture quality when watching a RGB video source.	 Press the ⊕ button repeatedly on the remote control until the RGB symbol ⊕ is displayed on the screen.
Good picture, no sound	 Press the ∠ +/- button on the remote control. If ⋈ is displayed on the screen, press the ⋈ button on the remote control.
No colour on colour programmes	 Using the MENU system, select the Picture Adjustment display. Adjust the colour balance. From the Picture Adjustment display select
Distorted picture when changing programmes or selecting teletext	Turn off any equipment connected to the 21 pin Euro connector on the rear of the TV.
Remote control does not function	Replace the batteries.

- If you continue to have these problems, have your TV serviced by qualified personnel.
- NEVER open the casing yourself.

Specifications

TV system

I

Colour system

PA

NTSC 3.58, 4.43 (only Video In)

Channel coverage UHF: B21-B69

Picture tube

KV-25X5U: Super Trinitron

Approx. 63 cm (25 inches) (Approx. 59 cm picture measured diagonally),

100° deflection KV-29X5U:

Super Trinitron

Approx. 72 cm (29 inches) (Approx. 68 cm picture measured diagonally),

100° deflection

Inputs

- Rear Terminals
- ← 1/← 21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output
- ← 2/ ⑤ 21-pin Euro connector (CENELEC standard) including audio/video input, S-video input, Monitor audio/video output
- Front Terminals
- ⊕2 video input phono jack
- € 2 audio inputs phono jacks
- → S video input 4 pin DIN

Outputs

- Audio outputs (variable) phono jacks

Sound output:

2 x 10 W (RMS)

Power consumption

KV-25X5U: 139 W KV-29X5U: 158.5 W

Standby Power consumption

1 W

Dimensions (wxhxd)

KV-25X5U: Approx. 593 x 502 x 506 mm KV-29X5U: Approx. 676 x 557 x 525 mm

Weight

KV-25X5U: Approx. 33.2 kg KV-29X5U: Approx. 43.5 kg

Accessories supplied

RM-883 Remote Control (1)

IEC designated batteries (2)

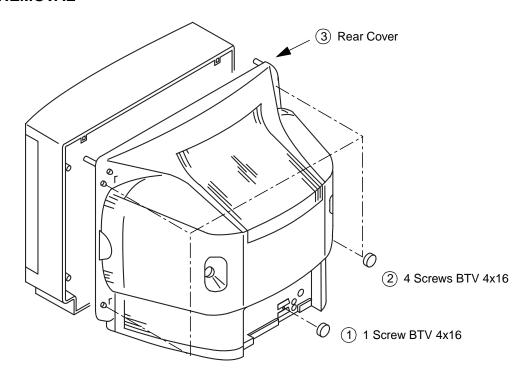
Other features

TELETEXT, Fastext

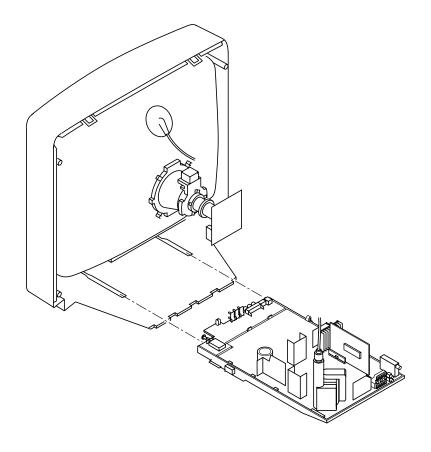
Design and specifications are subject to change without notice.

SECTION 2 DISASSEMBLY

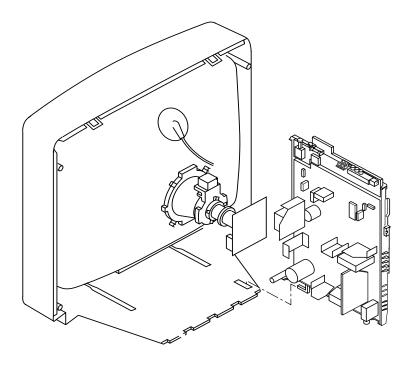
2-1. REAR COVER REMOVAL



2-2. CHASSIS ASSY REMOVAL

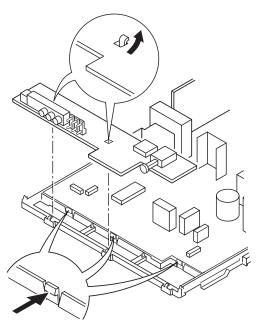


2-3. SERVICE POSITION

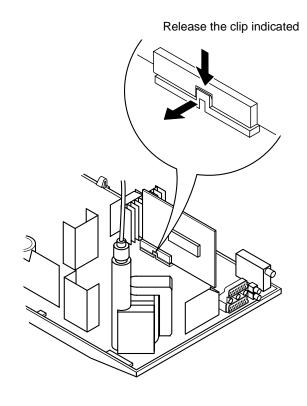


2-4. H1 BOARD REMOVAL

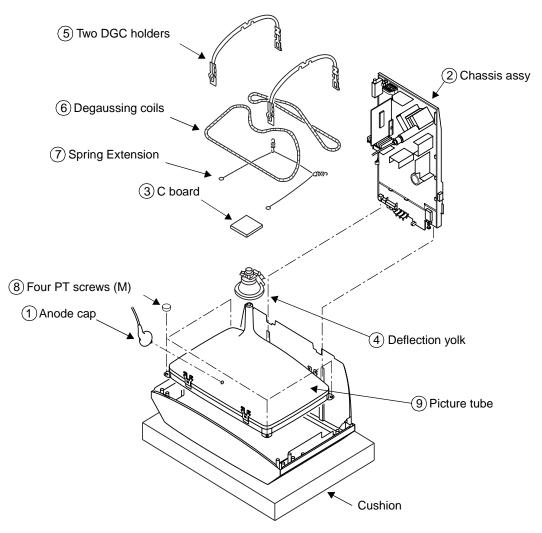
2-5. S1 BOARD REMOVAL



To release, push the claws in the direction of the arrow as indicated.



2-6. PICTURE TUBE REMOVAL



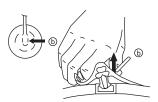
REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

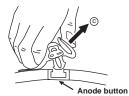
* REMOVING PROCEDURES.



1 Turn up one side of the rubber cap in the direction indicated by the arrow (a)



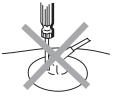
2 Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)

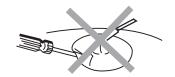


(3) When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ©

• HOW TO HANDLE THE ANODE-CAP

- To prevent damaging the surface of the anode-cap do not use sharp materials.
- Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- 3 A metal fitting called a shatter hook terminal is fitted inside the rubber cap. Do not turn the rubber foot over excessively this may cause damage if the shatter hook sticks out.





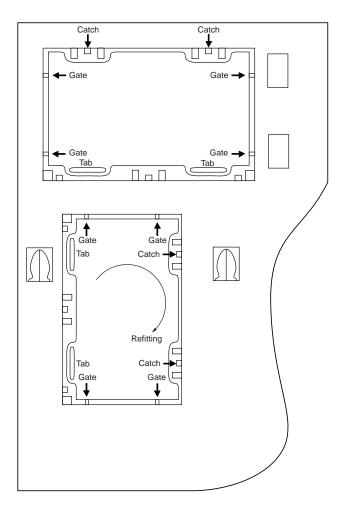
REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the A Board printed wiring board, the bottom plates fitted to the main chassis bracket require to be removed.

This is performed by cutting the gates with a sharp wire cutter at the locations shown and indicated by arrows.

Note :There are 2 plates fitted to the main bracket and secured by 4 gates. Only remove the necessary plate to gain access to the printed wiring board.



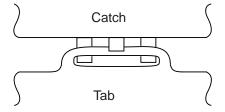


For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from the cut position to allow the tabs to be fitted in the catch positions.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast 80	% [or remote control normal]
-------------	------------------------------

Brightness 50%

Carry out the following adjustments in this order:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-4. Focus
- 3-3. White balance

Note: Test equipment required

- Color bar/pattern generator.
- 2. Degausser.
- 3. Oscilloscope.
- 4. Digital multimeter.
- 5. DC Power supply.

Preparation:

- 1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- Switch on the TV set's power and degauss with the degausser.

3-1. BEAM LANDING

- Input an all-white signal from the pattern generator.
 Set the Contrast and Brightness to normal.
- 2. Set the pattern generator raster signal to all Red.
- 3. Move the deflection yolk forward and adjust with the purity control so that the Red is at the centre and the Blue and Green take up equally sized areas on each side of the screen. [See Fig.3-1 3-3].
- 4. Move the deflection yolk forward and adjust so that the entire screen becomes Red. [See Fig.3-1].
- 5. Switch the raster signal to Blue, then to Green and verify the purity condition.
- When the position of the deflection yolk has been determined, fasten the deflection yolk with the screws.
- 7. If the beam does not land correctly in all the corners, use magnets to correct it. [See Fig.3-4].

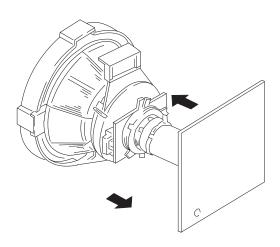


Fig. 3-1



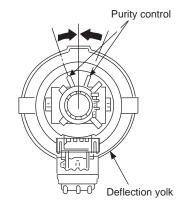
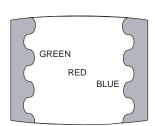
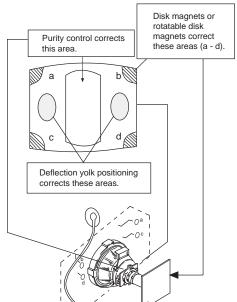


Fig. 3-3



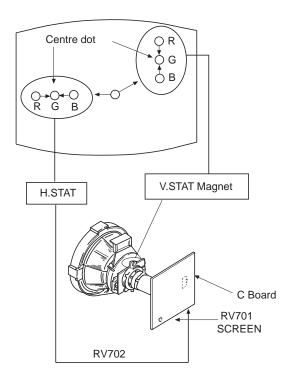


3-2. CONVERGENCE

Preparation:

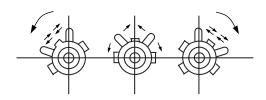
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the Brightness setting.
- Input a dot pattern from the pattern generator.

(1) Horizontal and vertical static convergence

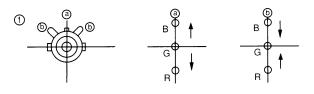


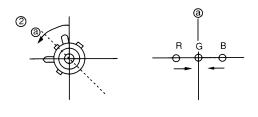
- [Moving horizontally], adjust the H.STAT control so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- [Moving vertically], adjust the V.STAT magnet so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- 3. If the H.STAT variable resistor is unable to bring the Red, Green and Blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner indicated below. [In this case, the H.STAT variable resistor and the V.STAT magnet influence each other].

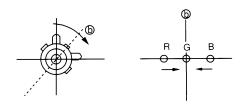
 Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

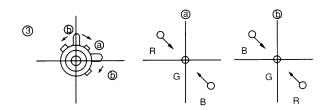


4. If the V.STAT magnet is moved in the direction of the a and b arrows, the Red, Green and Blue points move as indicated below.

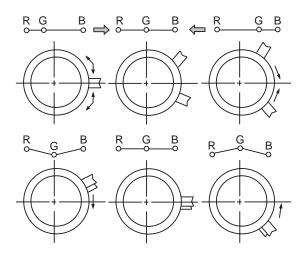








(2) Operation of the BMC (Hexapole) magnet.



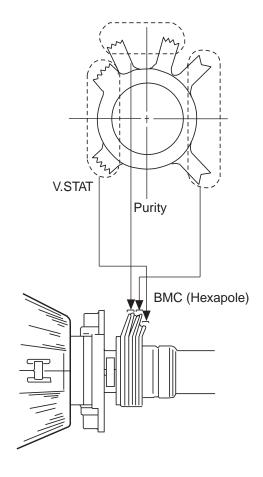
 The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment whilst tracking.

Use the H.STAT VR to adjust the Red, Green and Blue dots so that they coincide at the centre of the screen [by moving the dots in the horizontal direction].

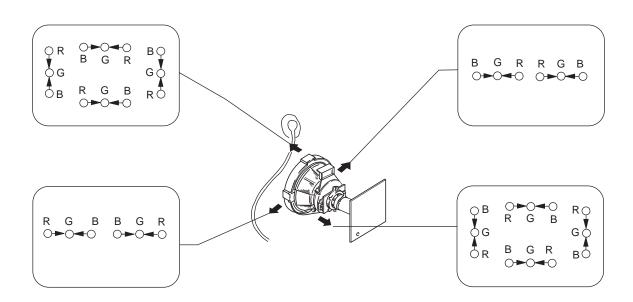
(3) Dynamic convergence adjustment.

Preparation:

- Before starting this adjustment, adjust the horizontal and vertical static convergence.
- 1. Slightly loosen the deflection yolk screws.

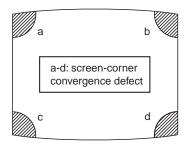


- 2. Remove the deflection yolk spacer.
- 3. Move the deflection yolk as indicated in the figure below and optimize the convergence.
- 4. Tighten the deflection yolk screws.
- 5. Re-install the deflection yolk spacer.

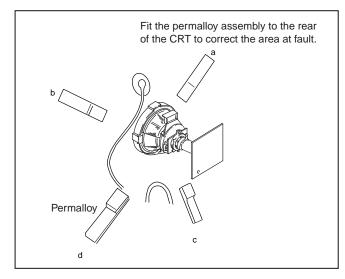


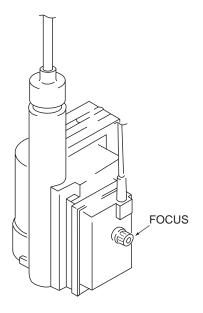
(4) Screen corner convergence.

 If you are unable to adjust the corner convergence properly, this can be corrected by the use of permalloy assemblies.









3-3. Screen [G2], White balance

G2 Setting

- 1. Input a dot signal from the pattern generator.
- 2. Set the Picture, Brightness and Colour to minimum.
- Apply 170Vdc from an external power supply to the R, G and B cathodes of the CRT.
- Whilst watching the picture, adjust the G2 control [RV701 SCREEN] located on the C Board to the point just before the flyback return lines disappear.

White balance adjustment

- 1. Input a 'PAL' all-white signal from the pattern generator.
- 2. Enter into the Service Mode.
- 3. Enter into the 'Picture' service menu.
- 4. Select the 'Green drive' and adjust so that the White Balance becomes optimum.
- Select the 'Blue drive' and adjust so that the White Balance becomes optimum.
- 6. Set the Picture to MIN.
- 7. Set the 'R-cut-off' to 07.
- 8. Adjust the 'G-cut-off', and the 'B-cut-off' so that the White Balance becomes optimum.
- 10. Press the □ button to return to TV operation.

PICTURE	
R - Drive	Adj
G - Drive	Adj
B - Drive	Adj
R - cut - off	Adj
G - cut - off	Adj
B - cut - off	Adj
ID - start	02
ID - stop	01
ID - level	01
Bellfo	Adj
Sub Colour	Adj
Sub Brightness	Adj

3-4. FOCUS

- 1. Input a Phillips colour pattern
- 2. Set the picture settings to normal.
- 3. Adjust the focus control located on the Flyback transformer to bring the centre of the screen into focus.

Note: Bring only the centre area of the screen into focus, switch to an all-white pattern and confirm that the magenta ring is hardly noticed. To obtain optimum focus balance the focus setting between optimum screen centre focus and a reduced magenta ring level.

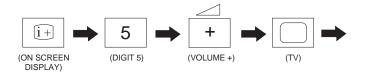
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustments to this model can be performed using the supplied Remote Commander RM-883.

HOW TO ENTER INTO SERVICE MODE

- Turn on the main power switch and enter into the stand-by mode
- 2. Press the following sequence of buttons on the Remote Commander.



 'TT--' will appear in the upper right corner of the screen.

Other status information will also be displayed.

3. Press 'MENU' on the remote commander to obtain the following menu on the screen.

TEST MENU

> Picture
Geometry
Sound
TV Status
AGC Adjust
Technical

- 4. Move to the corresponding adjustment item using the 'Green' [up] or 'Blue' [down] buttons on the Remote Commander.
- 5. Press the 'Yellow' button to enter into the required menu item.
- 6. Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note :The data shown in the 'TV STATUS' table is dependant on destination and country.

PICTURE	
R - Drive	Adj
G - Drive	Adj
B - Drive	Adj
R - cut - off	Adj
G - cut - off	Adj
B - cut - off	Adj
ID - start	02
ID - stop	01
ID - level	01
Bellfo	Adj
Sub Colour	Adj
Sub Brightness	Adj

GEOMETRY	
V centre	Adj
V size	Adj
V Lin	Adj
S Corr	Adj
H Cent	Adj
H Size	Adj
Pin Amp	Adj
Corner Pin	Adj
Pin Phase	Adj
V Bow	Adj
V Angle	Adj
Upper V Lin	Adj
Lower V Lin	Adj
Left HBLK	07
Right HBLK	07
CD Mode (AV)	01

SOUND	
Nicam Error Lower	20
Nicam Error Upper	80
Nicam Error Rate	xx [Status only]
AGC Gain Level	xx [Status only]

TV STATUS	
Destination	A/L/E/U/D/B/K/R
Text Language	East/West

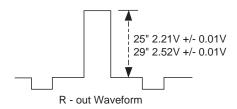
TECHNICAL	
GD - Secam	30
BD - Secam	31
RC - Secam	11
GC - Secam	19
BC - Secam	10
GD - Sports	30
BD - Sports	36
RC - Sports	14
GC - Sports	15
BC - Sports	17
Y - Delay (AV)	07

SUB BRIGHTNESS ADJUSTMENT

- 1. Input a Phillips colour pattern.
- 2. Press 'TEST' 'TEST' 13 on the Remote Commander.
- Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

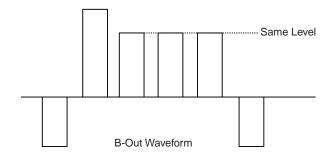
SUB CONTRAST ADJUSTMENT

- Input a video signal that contains a small 100% white area on a black background
- 2. Set the picture control to maximum. ['TT01']
- 3. Connect an oscilloscope to Pin 1 of CN504 [A Board].
- 4. Enter into the 'Picture' service menu.
- 5. Adjust the 'R Drive' data to obtain the following waveform.



SUB COLOUR ADJUSTMENT

- 1. Receive a PAL colour bar signal.
- 2. Connect an oscilloscope to Pin 3 of CN504 [A Board].
- 3. Enter into the 'Picture' service menu.
- 4. Adjust the 'Sub Colour' data so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.



Note: Ensure that no signal is applied to the Antenna socket while carrying out the following IF adjustments.

SYSTEM B/G, D/K, I & L I.F ADJUSTMENT

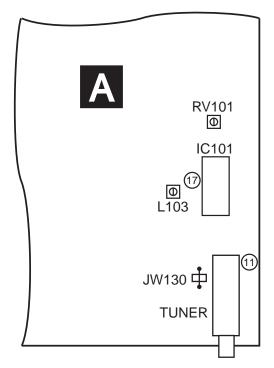
- Input a 38.9Mhz carrier signal at 100dBuV to Pin 11 [IF output] of the tuner [TU101].
- 2. Measure the voltage at Pin 17 of [IC101].
- 3. Adjust L103 [A Board] to obtain a voltage of 2.5V +/- 0.3V.

SYSTEM L BAND 1 I.F ADJUSTMENT

- 1. Input a 34.0MHz carrier signal at 100dBuV to Pin 11 [IF output] of the tuner [TU101].
- 2. Select 'system L' + C00 [channel 00].
- 3. Measure the voltage at Pin 17 [IC101].
- 4. Adjust RV101 [A Board] to obtain a voltage of 2.5V +/- 0.3V.

TUNER AGC ADJUSTMENT

- Receive a signal of 65dBuV / 75 ohm terminated, via the tuner antenna socket.
- 2. Connect a voltmeter to JW130 [A Board].
- 3. Enter into the 'Test Menu'.
- 3. Select the 'AGC Adjust' menu item.
- Adjust the data using the Yellow and Green buttons on the Remote Commander to obtain a voltage of 3.0V +/- 0.2V.

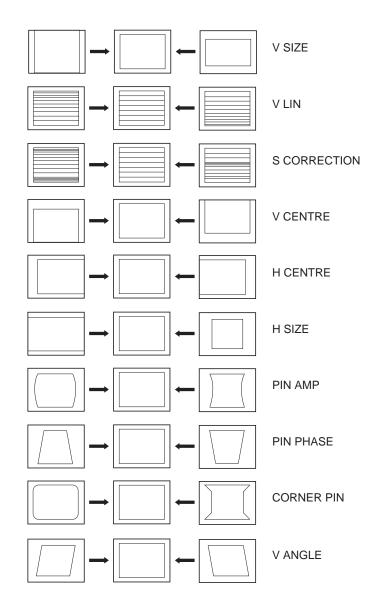


A Board component side

DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into the 'Geometry' service menu.
- 2. Select and adjust each item in order to obtain the optimum image.

GEOMETRY	
V centre	Adj
V size	Adj
V Lin	Adj
S Corr	Adj
H Cent	Adj
H Size	Adj
Pin Amp	Adj
Corner Pin	Adj
Pin Phase	Adj
V Bow	Adj
V Angle	Adj
Upper V Lin	Adj
Lower V Lin	Adj
Left HBLK	07
Right HBLK	07
CD Mode (AV)	01



4-2. TEST MODE 2:

Is available by pressing 'TEST' button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0 twice, or switch the TV into stand-by mode, or press the \Box TV button on the remote commander.

00	Cancel Test mode
01	Picture maximum
02	Picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Ageing mode On/Off
08	Set shipping conditions
09	Display TV Status
10	No function
11	Sub Picture Adjustment
12	Sub Colour Adjustment
13	Sub Brightness Adjustment
14	Text H position Adjustment
15	Rotation test
16	Picture level 50%
17	Audio mute ON
18	Disable Blanking
19	No function
20	No function
21	Destination A
22	Destination L
23	Destination E
24	Destination U
25	Destination D
26	Destination B
27	Destination K
28	Destination R
29	No function
30	No function
31	Audio shutoff Disable/Enable
32	RGB priority Disable/Enable
33	Rotation On/OFF
34	Text language East/West
35	Wide CRT/4:3 CRT
36	VM ON/OFF test
37	No function
38	No function
39	No function
40	No function
41	Re-initialize the NVM [Only when Prog=59]

42	Re-initialise geometry settings [Only when Prog=59]	
43	No function	
44	No function	
45	No function	
46	No function	
47	No function	
48	Set NVM as NON Virgin [Only when Prog=59]	
49	Set NVM as Virgin [Only when Prog=59]	
50	No function	
51	No function	
52	No function	
53	No function	
54	No function	
55	No function	
56	No function	
57	No function	
58	No function	
59	No function	
60	No function	
61	Auto AGC Adjust	
62	Alternative Dest B Autotuning	
63	Enable/Disable Y/C input	
64	Signal Quality Check for Auto Tune	
65	Signal Quality NOT Checked for Auto Tune	
66	No function	
67	Manual AGC Adjust	
68 -100	No function	

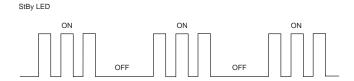
4-3. FE-1 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the FE-1 chassis is triggered in one of two ways: -1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See Table 1., non fatal errors are reported using this method. Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

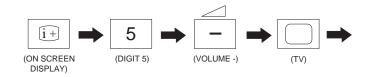
ERROR	LED ERROR COUNT
No error	00
Not allowed (may be confused with Sircs response flash!)	01
Protection circuit trip < ANY TIME >	02
Reserved	03
No vertical sync	04
AKB	05
IIC bus clock and/or data lines low at Power ON	06
NVM no IIC bus acknowledge at Power ON	07
Jungle controller no IIC acknowledge at Power ON	08
Tuner no acknowledge at Power ON	09
Sound processor no acknowledge at Power ON	10

Flash Timing Example: e.g. error number 3



How to enter into Table 2

- Turn on the main power switch of the TV set and enter into the 'Standby Mode'.
- Press the following sequence of buttons on the Remote Commander.



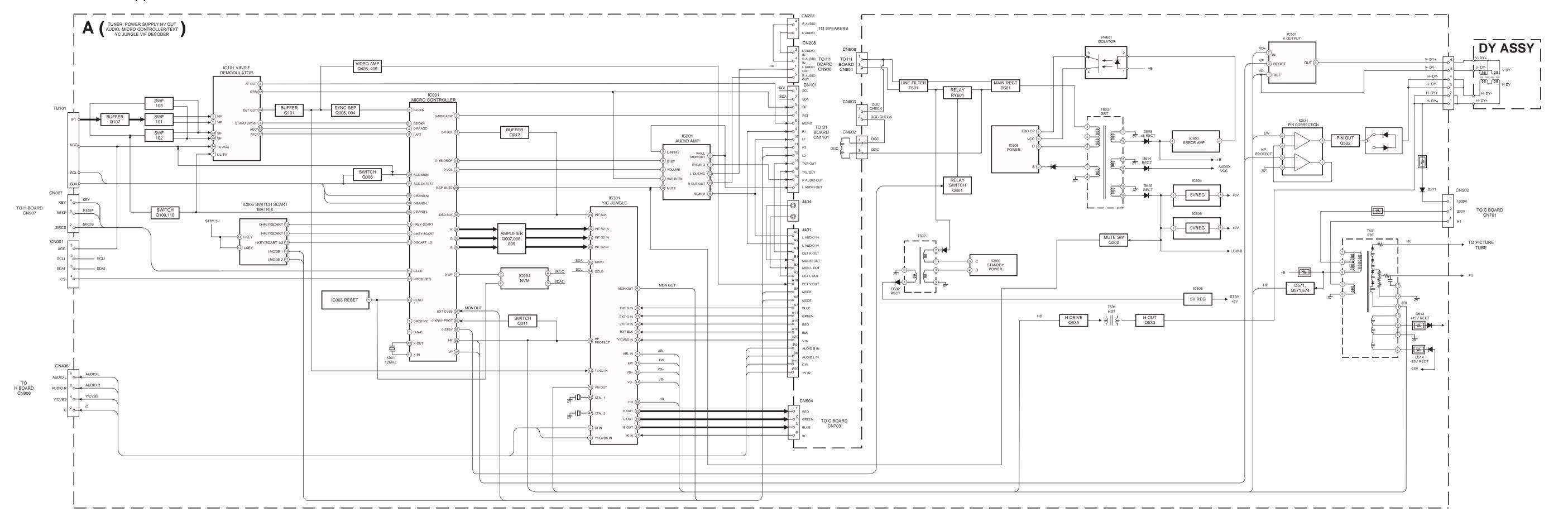
The following table will be displayed indicating the error count

Table 2

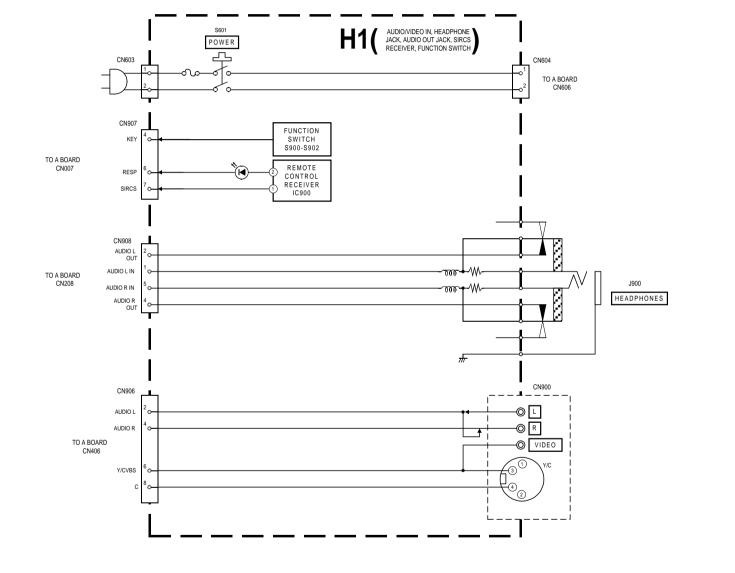
Error	Times
2	-
3	-
4	-
5	-
6	-
7	-
8	-
9	-
10	-

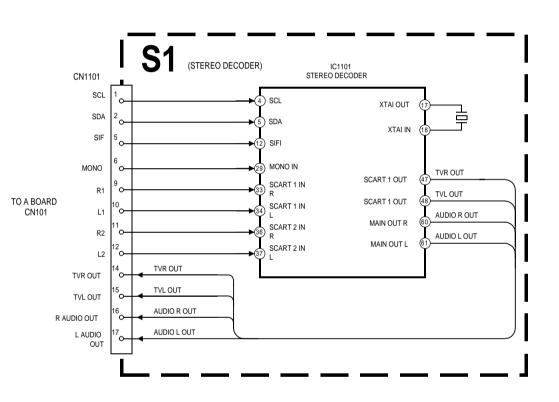
Note: To clear the error count data press '80' on the Remote commander.

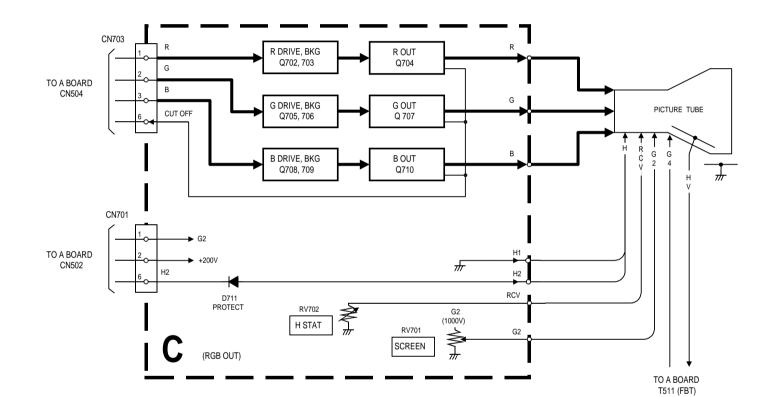
5-1 BLOCK DIAGRAMS (1)



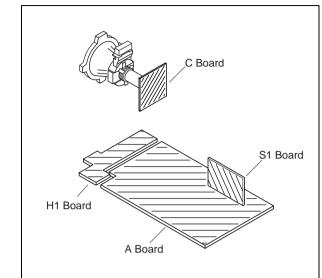
26







5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Not

- All capacitors are in µF unless otherwise noted.
- pF: µµF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm Electrical power rating : 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
- k = 1000 ohms, M = 1000,000 ohms

• : nonflammable resistor.

• : fusible resistor.

• : internal component.

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.

: panel designation or adjustment for repair.

Readings are taken with a color bar input signal.
Voltage variations may be noted due to normal production

tolerences.

• _____ : B +

• B - bus.

: RF signal path.

• ___ : earth - ground.

• : earth - chassis.

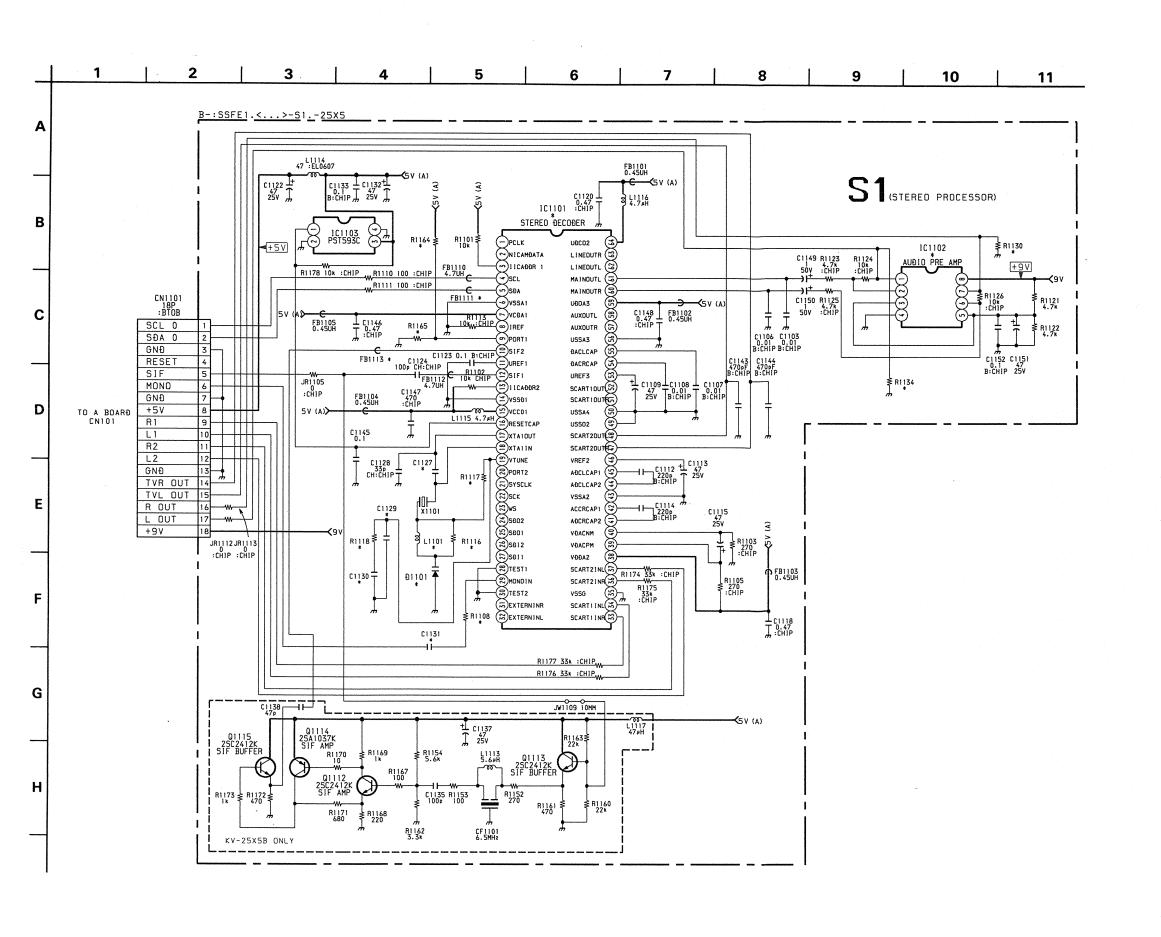
Reference Information

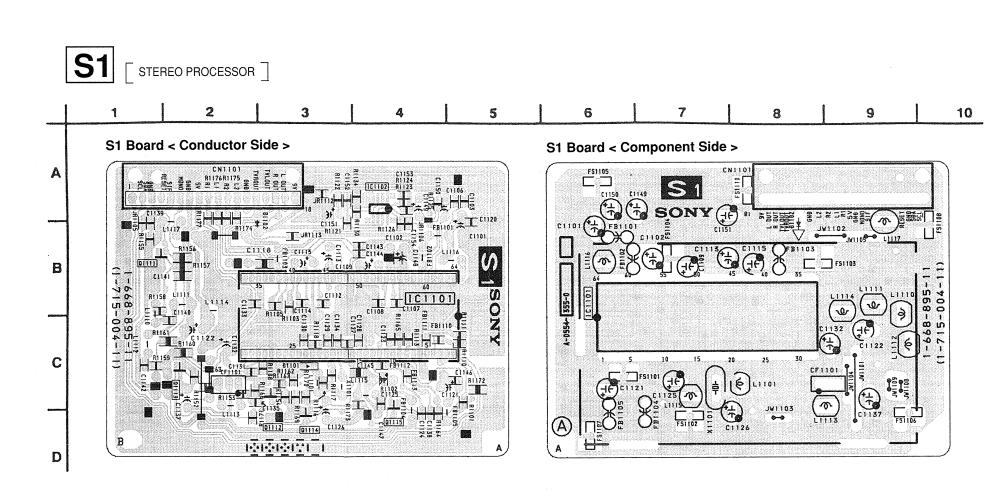
ON
BLE
L OXIDE
NT
WOUND
₹
LENE

Note: The components identified by shading and marked ∆ are critical for safety Replace only with the part numbers specified in the parts list.

Note: Les composants identifies par une trame et par une marque ∆ sont d'une importance critique pour le securite. Ne les remplacer que par des pieces de numero specifie.

30 31





S1 BOARD IC VOLTAGE TABLE

Ref No	Pin No	Voltage (V)
	4	3.4
	5	3.2
	7	4.8
	8	2.3
	9	4.8
	10 - 12	2.3
	. 13	4.8
	15	4.8
	16	4.8
	17	2.6
IC1101	18	3.5
	19	4.0
	33 - 34	2.4
	36 - 37	2.4
	38 - 39	4.8
	41 - 42	2.4
	44 - 48	2.4
	53 - 55	2.4
	59	4.8
	60 - 61	*2.4
	64	4.8
	1	4.5
	2	4.1
	3	4.5
IC1102	6	4.3
	7	3.5
	8	9.0

S1 BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table							
Ref No	(B) Base	(C) Collector	(E) Emitter				
Q1111	2.0	4.1	1.3				
Q1112	1.5	3.5	0.9				
Q1113	1.9	4.1	1.3				
Q1114	3.5	3.3	4.1				
Q1115	3.3	4.1	2.7				

S1 BOARD * MARK

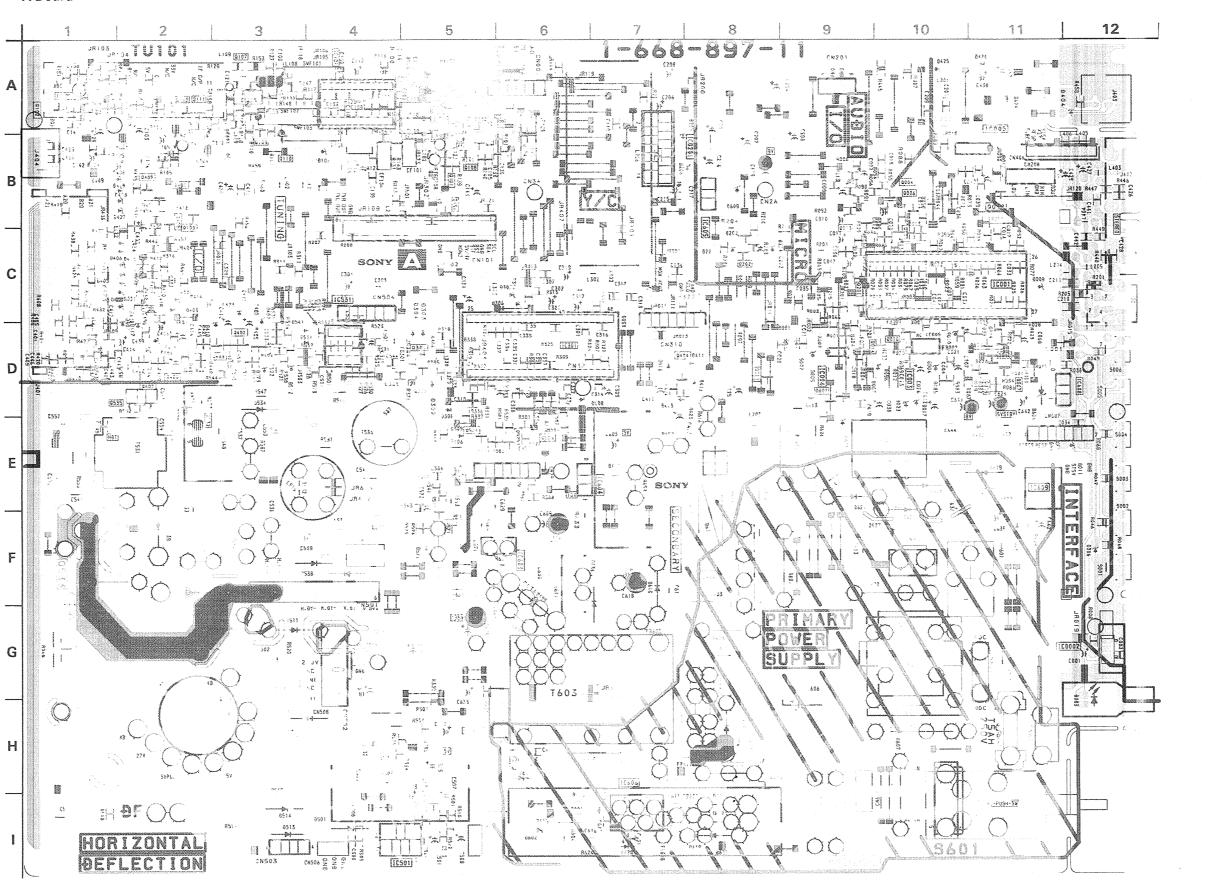
Ref	25X5A	25X5B	25X5D	25X5E	25X5K	25X5L	25X5R	25X5U
C1127	22PF	33PF	22PF	33PF	33PF	33PF	22PF	33PF
C1129	-	0.033MF	-	0.033MF	0.033MF	0.033MF	-	0.033MF
C1130		0.33MF	-	0.33MF	0.33MF	0.33MF	-	0.33MF
C1131	0.47MF	0.47MF	0.47MF	-	-	-	0.47MF	-
D1101	0	BB135	0	BB135	BB135	BB135	0	BB135
FB1111	6.8UH	4.7UH	6.8UH	4.7UH	4.7UH	4.7UH	6.8UH	4.7UH
FB1113	<u>-</u>	4.7UH	-		-	-	-	-
IC1101	TDA9870	TDA9875P	TDA9870	TDA9875P	TDA9875P	TDA9875P	TDA9870	TDA9875P
IC1102	LM358D	UPC4558G2	LM358D	UPC4558G2	UPC4558G2	UPC4558G2	LM358D	UPC4558G2
L1101	-	2.7UH	-	2.7UH	2.7UH	2.7UH	-	2.7UH
L1113		5.6UH	-	-	-	-	-	-
L1117	-	47UH	-	-	-	-	-	-
R1108	2.2K	2.2K	2.2K	-	-	-	2.2K	-
R1116	0	39K	0	39K	39K	39K	0	39K
R1117	-	10K	-	10K	10K	10K	-	10K
R1118	· -	20K	-	20K	20K	20K	-	20K
R1130	10K	-	10K	-	-	-	10K	-
R1134	10K	-	10K	-	-	-	10K	-
R1164	-	10K	-	10K	10K	10K	-	10K
R1165	0	-	0	-	-	-	0	-

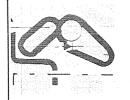
A BOARD

	IC	р	IODE	D539	F - 2
IC001	C - 11	D001	D - 8	D571	F - 5
IC003	D - 10	D002	D - 8	D601	G - 8
IC004	D - 10	D002	D - 10	D602	1-6
IC005	B - 11	D007	D-9	D603	H - 6
IC101	A - 4	D008	D -7	D605	G - 6
IC201	B - 7	D009	C - 11	D608	H - 8
IC301	D - 6	D010	D - 10	D610	F - 7
IC501	1 - 4	D011	E - 12	D613	E - 9
IC531	C - 4	D012	D - 11	D614	G - 6
IC603	F-6	D014	D - 11	D619	1 - 8
IC604	E - 6	D015	D - 11	D621	F - 10
IC605	C - 8	D017	E - 10	D626	F - 9
IC606	1 - 7	D018	D - 7	D627	F-9
IC608	D - 12	D023	E - 10	D628	E - 10
IC609	E - 11	D101	B - 2	D629	E - 11
TRAI	NSISTOR	D104	A - 3	D631	F - 11
Q004	B - 9	D201	C - 8	D632	E - 10
Q005	C - 10	D202	C - 8	D633	E - 9
Q006	B - 9	D204	C - 9		
Q007	D - 10	D205	B - 8		
Q008	D - 11	D206	B - 7		
Q009	D - 11	D306	C - 6		
Q010	D - 10	D307	C - 6		
Q011	D - 8	D308	E - 5		
Q012	B - 11	D309	E - 5		
Q013	B - 9	D405	C - 1	-	
Q101	B - 5	D406	C - 2		
Q107	A - 3	D407	D - 2		
Q109	B - 2	D407	B - 1		
Q110	B - 2	D405	D - 2		
Q111	A - 2	D417	D - 2		
Q112	A - 2	D422	C -1		
Q202	C - 8	D423	C - 1		
Q401	B - 2	D427	B - 2		
Q405	B - 2	D501	1 - 4		
Q408	B - 2	D502	H - 4		
Q501	1-5	D511	G - 3		
Q532	E - 2	D512	H - 3		
Q533	F - 1	D513	1 - 3		
Q535	D - 1	D514	1 - 3		
Q571	F - 5	D534	D - 3		
Q574	E - 5	D535	F - 4		
Q575	E - 6	D536	F - 2		
Q576	E - 6	D538	F - 4		



A Board





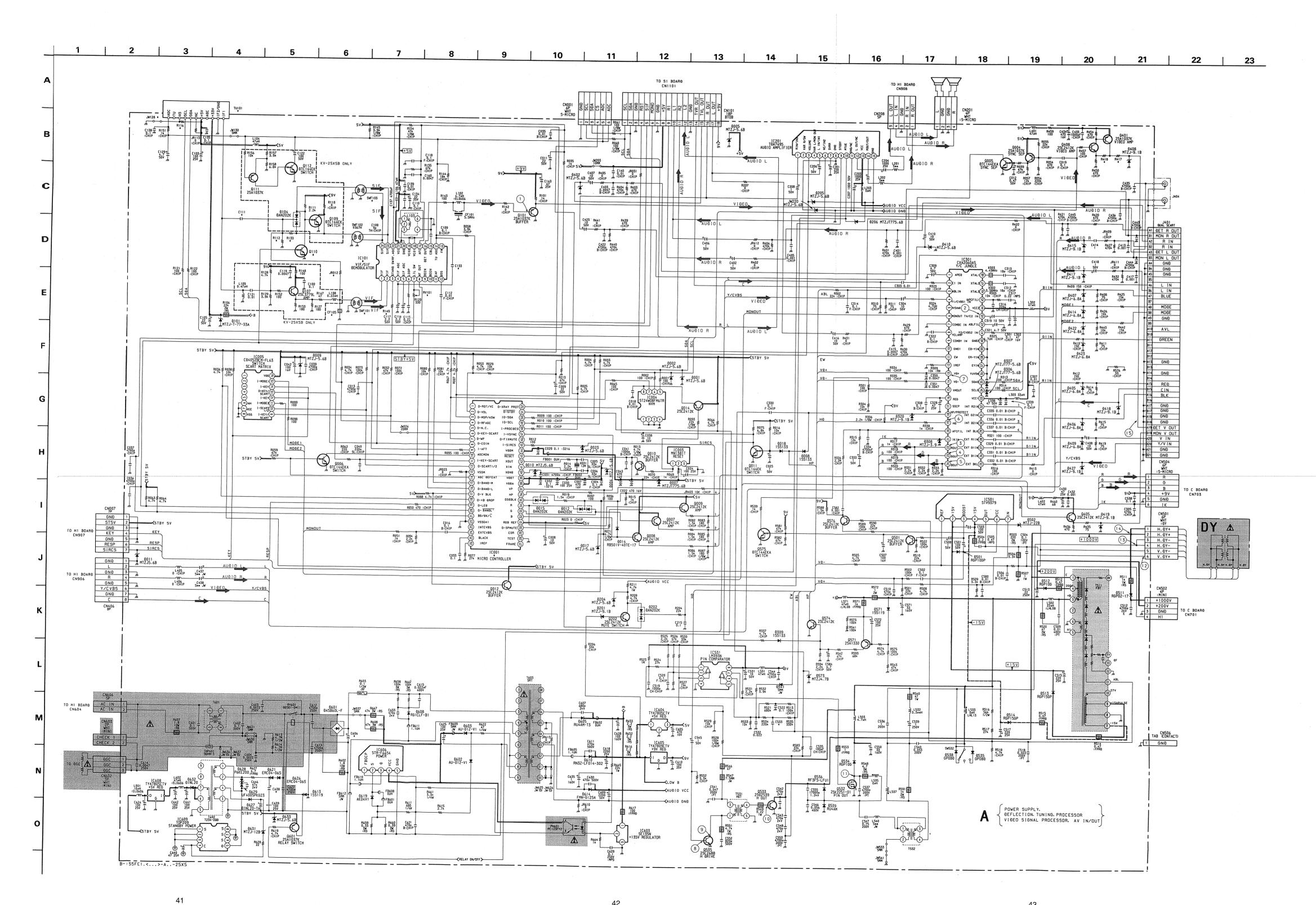
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

A BOARD TRANSISTOR

Transistor Voltage Table							
Ref No	(B) Base	(C) Collector	(E) Emitter				
Q004	4.7	0.7	4.9				
Q005	0.3	4.8	-				
Q006	-	2.0	-				
Q007	7 -	4.9	-				
Q008	-	4.9					
Q009	-	4.9	-				
Q010	0.6	- "	-				
Q011	0.5	-	-				
Q012	-	4.8	-				
Q101	2.0	-	2.6				
Q109	-	4.7	-				
Q110	4.3	-	-				
Q111	2.3	2.9	2.9				
Q112	2.9		-				
Q202	0.6	-	-				
Q401	8.0	3.4	8.6				
Q405	4.4	8.8	3.7				
Q408	2.6	8.0	2.0				
Q532	7.3	3.1	-				
Q533	-0.2	-152.0	-				
Q535	-0.7	92.0	-				
Q571	134.2	-	134.4				
Q574	-	2.0	-				
Q576	3.4	6.7	2.8				
Q601	4.0	3.6	4.8				

A BOARD IC VOLTAGE TABLE

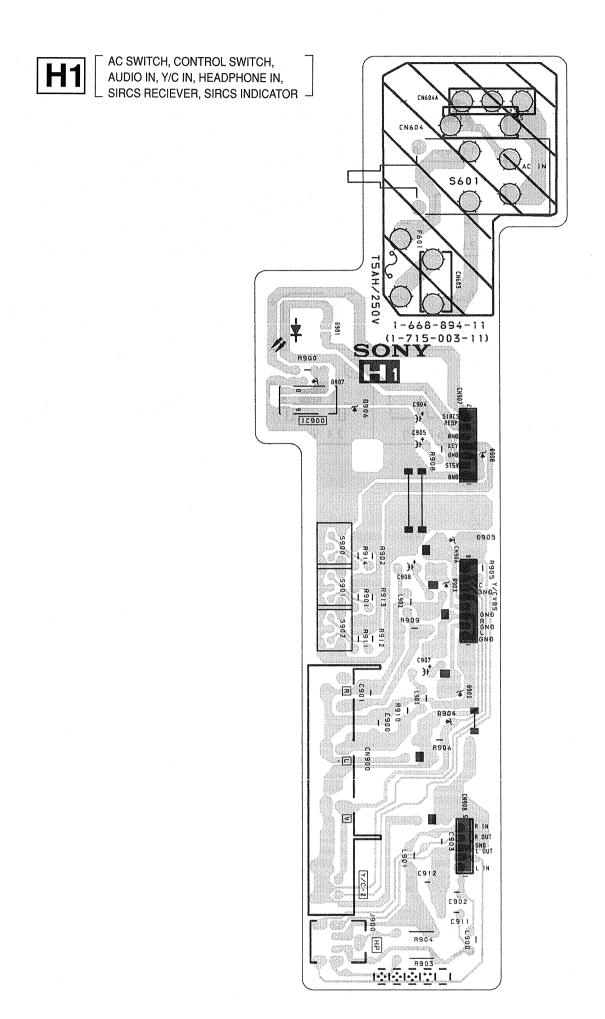
				IC Voltage Tabl	е			
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
	4	0.8		1 - 2	3.2		34 - 35	3.3
	6	3.2		3	4.8		41	5.0
	7 - 8	4.8		4	3.0		42	8.6
	9	0.3		5	2.8	IC301	43	5.0
	10	2.0		6	2.7		44	8.8
	11	1.5		7	3.9		45	5.2
	12	4.7	IC101	8	2.2		48	1.5
	19	3.6		12	2.0		1	15.3
	20	4.3		15	1.5		5	15.3
	21	4.8		17	0.3		7	15.3
	24	2.5		18 - 19	2.6	IC201	10	4.5
	25	2.1		21	4.7		12	15.3
IC001	26	2.4		22	0.9	1	13	31.2
	30	4.8		23 - 24	3.2		14	15.3
	31	5.0		1	3.3		1	1.4
	36	0.2		2	5.0	1	2	14.0
	37	0.1		3	4.3		3	-13.0
	38 - 39	5.0		4	5.0	IC501	4	-14.0
	41 - 42	2.2	1	6	4.4		5	0.2
	44	4.8		8	4.5		6	14.5
	45	2.8		11	3.9		7	1.4
	47	0.1		12	2.4		1	1.6
	48	2.4	IC301	13	3.5		2	1.7
	49	3.3	1	14	3.4		3	1.9
	50	3.1		15	5.6	IC531	5	2.8
	51	0.1	1	16	7.6	1	6	2.0
	5 - 6	4.8		18	1.3		7 .	7.3
IC004	7	3.3	1	19	2.4		8	8.8
10004	8	3.2		20	3.8	IC606	1 - 2	-60.0
	9	3.2		21	1.6		4	-51.3
	10	4.7		22 - 24	1.5	IC609	4	-58.0
	12	4.7		26 - 28	4.5		L	
IC005	13	1.5	1	30	4.5	1		
	14	4.7	1	31 - 32	4.4	1		
	16	4.7	1 .	33	8.1	1		
	1		<u> </u>		I			

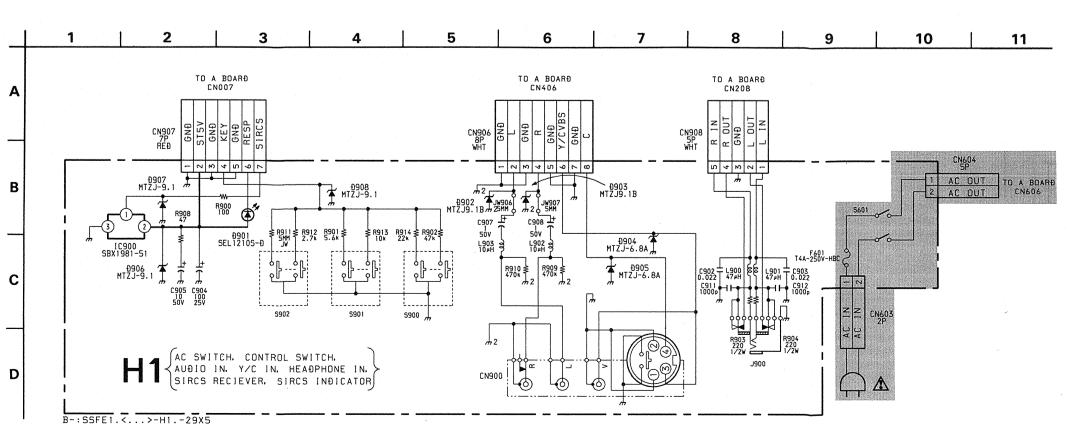


WAVEFORMS A BOARD 2.6 Vp-p (H) 2.0 Vp-p (H) 5.0 Vp-p (H) 56 Vp-p (V) 290 Vp-p (H) 146 Vp-p (V) 142 Vp-p (H)

A BOARD * MARK

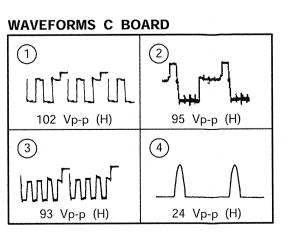
Ref	25X5A	25X5B	25X5D	25X5E	25X5K	25X5L	25X5R	25K5U
C111	0	0.01MF 50V	0	0	0	0	0	0
C133	-	1MF 16V	-		-	-	-	-
C533	-	0.0047MF 50V		-	-	-	=	-
C606	330MF 400V	330MF 400V	330MF 400V	330MF 400V	-	330MF 400V	330MF 450V	330MF 400V
C638	10MF 400V	10MF 450V	10MF 400V					
IC001	SAA5497PS/M1A/ 040	SAA5497PS/M1A/ 038	SAA5497PS/M1A/ 040	SAA5497PS/M1A/ 038	SAA5497PS/M1A/ 038	SAA5497PS/M1A/ 038	SAA5497PS/M1A/ 039	SAA5497PS/M1A/ 038
IC101	TDA9817/V1	TDA9818/V1	TDA9817/V1	TDA9817/V1	TDA9817/V1	TDA9817/V1	TDA9817/V1	TDA9817/V1
JR012	0	-	0	0	0	0	0	0
JW128	-	-	-	-	-	-	LEAD JUMPER (5.0MM)	-
R112	-	2.2K	-	-		-	-	-
R116	-	-	-	47K	47K	-	-	47K
R133	0 -	-	0	0	0	0	0	0
R149	-	1K	-	-	·-	-	• ,	
R417	75	75	75	75	75	75	75	68
R418	470	470	470	470	470	470	470	560
RV101	-	22K	-	-			*	-
SWF101	1-767-874-11	1-579-273-11	1-767-874-11	1-767-874-11	1-767-874-11	1-579-273-11	1-767-874-11	1-767-874-11
SWF103	-	1-767-083-11	•		-	-	•	-
TU101	TELE9-001A	TELE9-001A	TELE9-001A	BTP-AC411	BTP-AC411	TELE9-001A	BTP-AC402	BTP-AU611

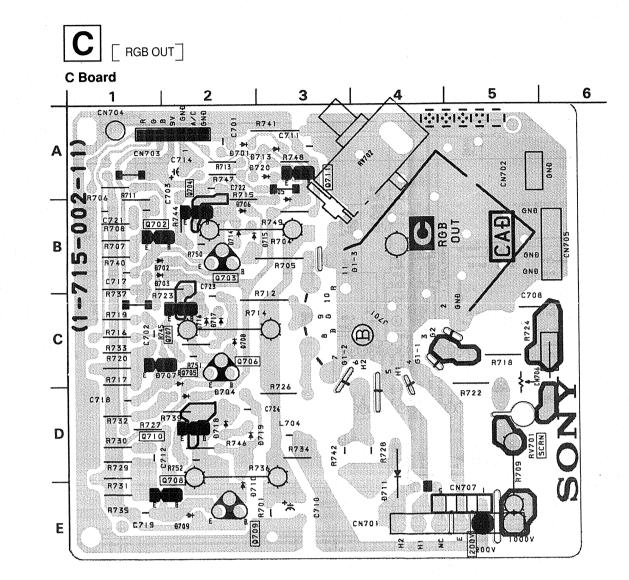


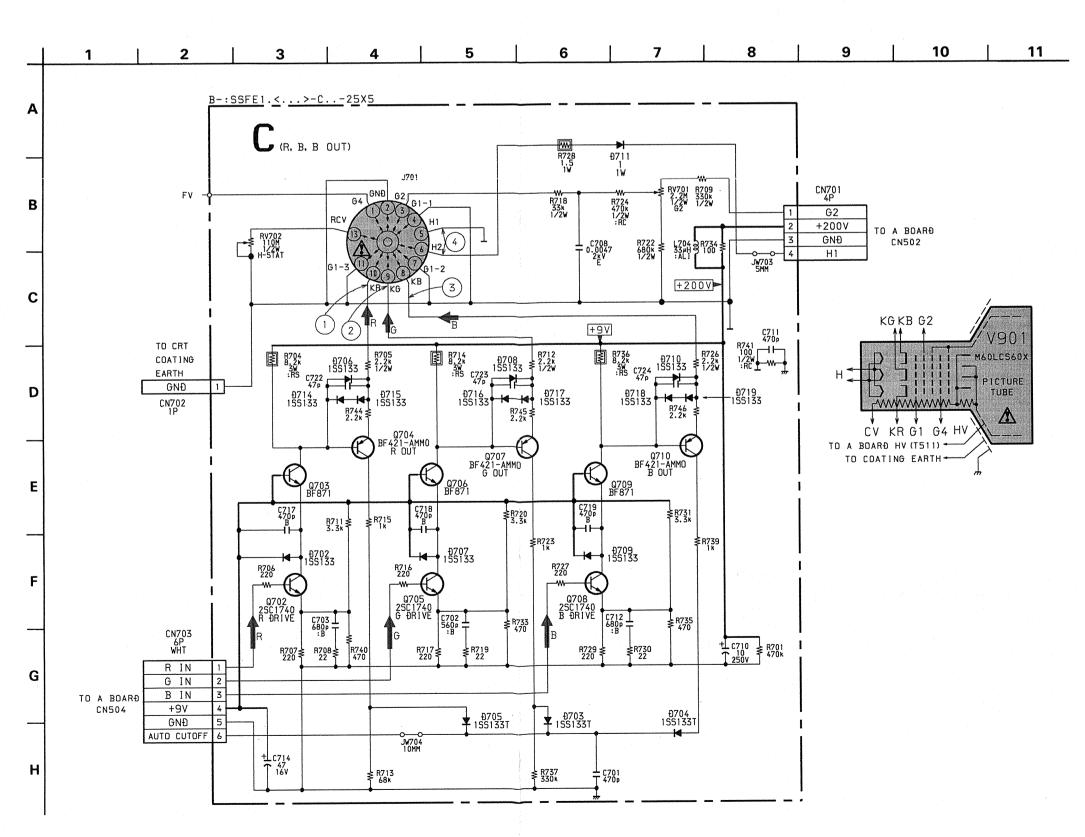


C BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table								
Ref No	(B) Base	(C) Collector	(E) Emitter					
Q702	1.5	8.3	1.1					
Q703	8.8	169.8	8.3					
Q704	169.5	1.9	209.5					
Q705	1.5	8.3	1.1					
Q706	8.8	170.7	8.3					
Q707	170.5	1.9	215.7					
Q708	1.5	8.3	1.0					
Q709	8.9	171.3	8.3					
Q710	171.2	1.9	206.3					



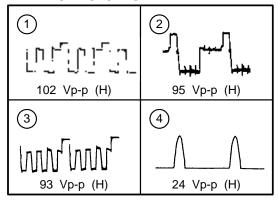




WAVEFORMS A BOARD

1 PAL	1 SECAM	② PAL	② SECAM	3
1	Part Market		The Party of	
1.0 Vp-p (H)	1.3 Vp-p (H)	1.0 Vp-p (H)	1.3 Vp-p (H)	2.6 Vp-p (H)
(4) p+	S Noon Noon Opa	6	7	®
المسلم إلمس]ww/ww/w			
2.6 Vp-p (H)	0.5 Vp-p (H)	5.0 Vp-p (H)	1.4 Vp-p (H)	2.0 Vp-p (H)
9	10	11)	12	13
	'H'		JIL	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
146 Vp-p (V)	12 Vp-p (H)	142 Vp-p (H)	56 Vp-p (V)	290 Vp-p (H)
(14)	15) PAL	15) SECAM		
		Part Market		
1.1KVp-p (H)	2.4 Vp-p (H)	3.0 Vp-p (H)		

WAVEFORMS C BOARD

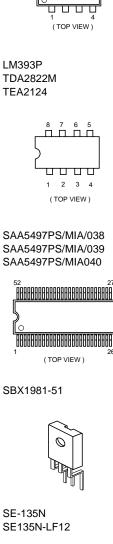


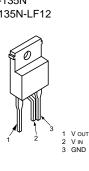
5-4 SEMICONDUCTORS (1)

16 9 .00000000 0000000 (TOP VIEW) ப்பெடிப் (TOP VIEW) 1 2 3 4 (TOP VIEW)

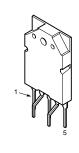


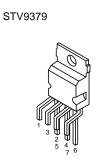


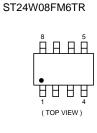








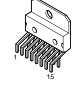


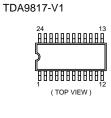


TDA7495

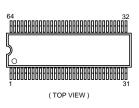
TDA9818-V1

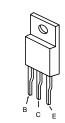






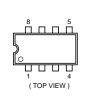






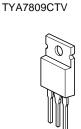
2SA1837

2SC4793



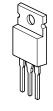
TOP209P

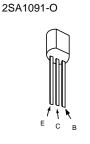


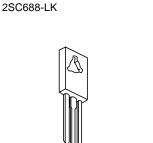


BF421-AMMO

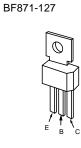
TYA7805CTV







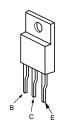




DTA144ESA DTA144ESA-TP DTC114EK DTC114EKA-T146 DTC143TKA-T146 DTC144EKA-T-146R 2SA1037K-T-146-R2SA1162-G 2SC2412K-QR 2SC2412K-T-146-R

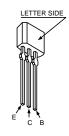




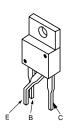


5-4 SEMICONDUCTORS (2)

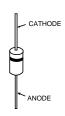
2SA933AS-QRT 2SA933AS-RT 2SC1740S-RT



2SK2251-01-F19



AK04-V1 ERD28-08S AU-012-V1 ERC06-15 BYD33G FMN-G12S BYD33G-RG1CLF-B1 AMMO RGP10GPKG23 DINL20-TR RU3YX-LF-C4 RU3YX-V1 ERB44-06TP1 EG-1Z-V1 RU-4AM-T3 EL1Z 1SS292T-77 ERD28-06S

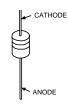


DAN202K DAN202K-T146

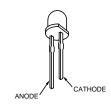




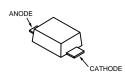
ERA81-004TP1 MTZJ-T-77-33A ERA83-006 MTZJ-33C MTZJ-T-77-3.9B MTZJ-7.5B RD3.9ES-B2 MTZJ-T-77-5.6B MTZJ-T-77-5.6C RD5.6ESB2 MTZJ-T-77-6.8A RD6.8ES-B2 MTZJ-T-77-6.8C RD7.5ESB2 MTZJ-T-77-7.5C RD9.1ES-B3 MTZJ-T-77-9.1A 1SS119-25TD MTZJ-T-77-9.1A 1SS133T-77 MTZJ-T-77-10



SEL12108-D

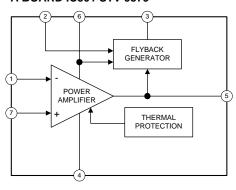


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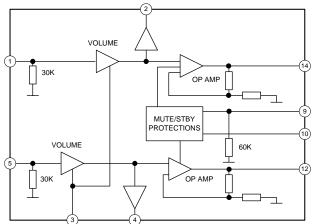


5-5. IC BLOCK DIAGRAMS

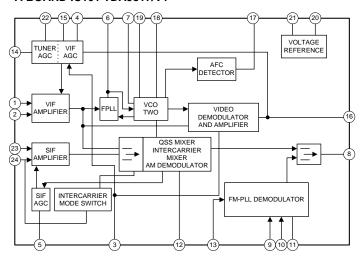




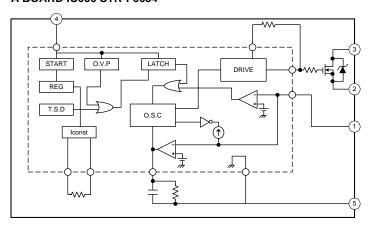
A BOARD IC201 TDA7495



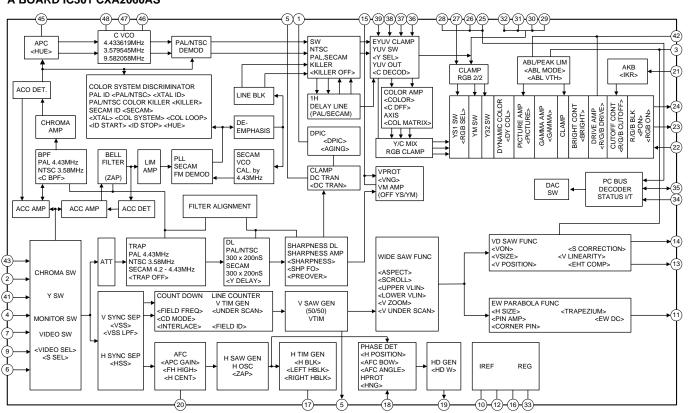
A BOARD IC101 TDA9817/V1



A BOARD IC606 STR-F6654



A BOARD IC301 CXA2060AS



SECTION 6 EXPLODED VIEWS

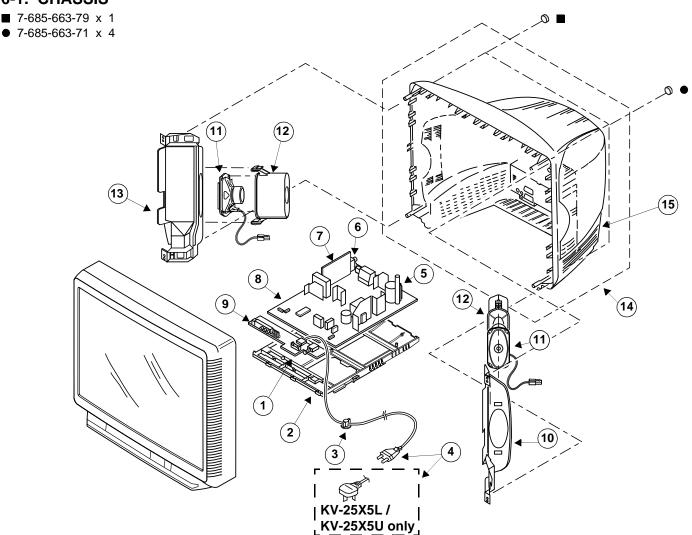
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. Note: Les composants indentifies par une trame et par une marque △ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

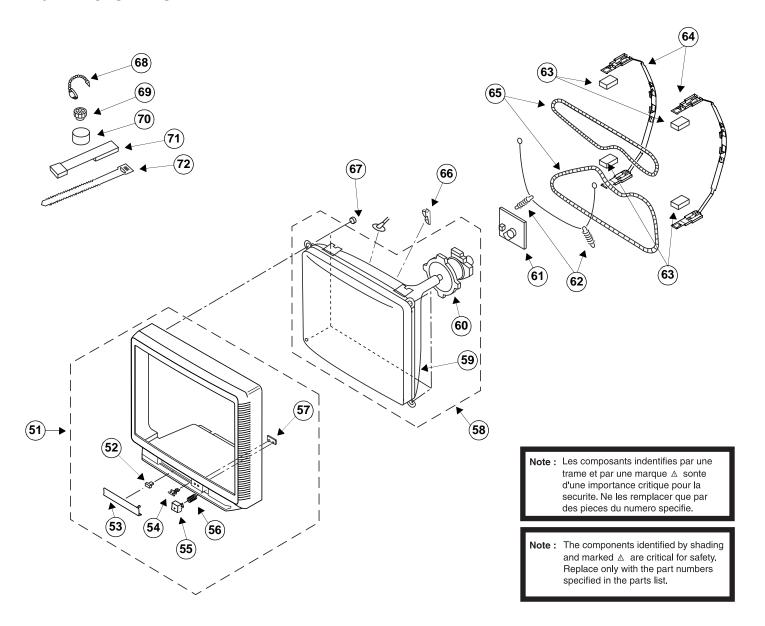
Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

6-1. CHASSIS



REF. NO.		PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
1	Δ	1-571-433-21	SWITCH, PUSH (AC P	OWER)	8	*A-1632-750-A	A BOARD, COMPLETE	(KV-25X5A)
2		*4-204-051-01	BRACKET, MAIN			*A-1632-748-A	A BOARD, COMPLETE	(KV-25X5B)
3		4-202-531-01	AC CORD LOCK (SC)			*A-1632-746-A	A BOARD, COMPLETE	(KV-25X5D)
4	Δ	1-765-286-11	CORD, POWER (KV-25	X5A/25X5B/25X5D/25X5E/		*A-1632-747-A	A BOARD, COMPLETE	(KV-25X5E)
			25	X5K/25X5R/25X5U)		*A-1632-752-A	A BOARD, COMPLETE	(KV-25X5K)
		1-776-860-11	CORD, POWER FILTER	(UK) (KV-25X5L)		*A-1632-751-A	A BOARD, COMPLETE	(KV-25X5L)
5	Δ	1-453-264-11	TRANSFORMER ASSY,	FLYBACK (NX1680/U2B4)		*A-1632-753-A	A BOARD, COMPLETE	(KV-25X5R)
6		1-693-418-11	TUNER (TELE9-001A)	(KV-25X5A/25X5B/		*A-1632-749-A	A BOARD, COMPLETE	(KV-25X5U)
				25X5D/25X5L)	9	*A-1646-157-A	H1 BOARD, COMPLETE	1
		8-598-432-00	TUNER (BTP-AC411) (KV-25X5E/25X5K)	10	4-204-052-01	BAFFLE BOARD (R)	
		8-598-361-01	TUNER (BTP-AC402) (KV-25X5R)	11	1-503-902-11	SPEAKER (15X6.5 CM	1)
		8-598-464-01	TUNER (BTP-AU611) (KV-25X5U)	12	4-204-054-01	BOX, SPEAKER	
7		*A-1652-053-A	S1 BOARD, COMPLETE	(KV-25X5A/25X5D/25X5R)	13	4-204-053-01	BAFFLE BOARD (L)	
		*A-1652-056-A	S1 BOARD, COMPLETE	(KV-25X5B)	14	X-4200-375-1	REAR COVER ASSY	
		*A-1652-052-A	S1 BOARD, COMPLETE	(KV-25X5E/25X5K/25X5L/ 25X5U)	15	4-204-094-01	COVER, REAR	

6-2. PICTURE TUBE



REF. NO	0.	PART.NO	DESCRIPTION	REMARK	REF. NO).	PART.NO	DESCRIPTION	REMARK
51		X-4200-377-2	BEZNET ASSY	52-57	63		4-203-390-11	CUSHION, DGC	
52		4-047-464-01	CATCHER, PUSH		64		4-202-745-01	HOLDER, DGC (25")	
53		4-204-050-01	DOOR, CONTROL (PAINTED) (BLACK)	65	Δ	1-406-806-21	COIL, DEMAGNETIZAT	ION
54		3-703-035-11	SHAFT, LID		66		3-704-495-01	SPACER, DY	
55		4-204-066-01	BUTTON, POWER		67		4-203-043-01	SCREW (PT)	
56		4-202-964-01	SPRING		68		4-308-870-00	CLIP, LEAD WIRE	
57		4-204-067-01	GUIDE LIGHT		69		1-452-094-00	MAGNET, ROTATABLE	DISK; 15MM Ø
58	Δ	8-733-254-76	ITC	59-60	70		1-425-032-00	MAGNET, DISK; 10MM	Ø
59	Δ	8-733-254-05	PICTURE TUBE (SI)-257) (M60LCS60X)	71		X-4387-214-1	PERMALLOY ASSY, CO	RRECTION
60	Δ	8-451-404-23	DEFLECTION YOKE	(Y25GXABA)	72		3-701-007-00	BAND, BINDING	
61		*A-1638-111-A	C BOARD COMPLETE	1					
62		4-200-433-11	SPRING, EXTENSION	N (KV-25X5A)					
		4-369-318-21	SPRING, TENSION	(KV-25X5B/25X5D/25X5E/ 25X5K/25X5L/25X5R/ 25X5U)					

SECTION 7 ELECTRICAL PARTS LIST

When indicating parts by reference number, please include the board name.

CAPACITORS MF: mF, PF: mmF

COILS MMH: mH, uH Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- **RESISTORS**
- All resistors are in ohms.
- F: nonflammable.

Note: Les composants indentifies par une trame et par une marque △ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note: The components identified by shading and marked \triangle are critical for safety. Replace only with the part numbers specified in the parts list.



REF. NO.	PART.NO	DESCRIPTION	ON		REMARK	REF. NO.	PART.NO	DESCRIPTION	ON		REMARK
	*A-1632-750-A	A BOARD COMPI	LETE (KV-25	X5A)		C031	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
		******	***			C032	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
	*A-1632-748-A	A BOARD COMPI	LETE (KV-25	X5B)		C033	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
		*****	***			C035	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
	*A-1632-746-A	A BOARD COMP	LETE (KV-25	X5D)							
		*****	***			C036	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
	*A-1632-747-A	A BOARD COMP	LETE (KV-25	X5E)		C037	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
		******	***			C038	1-126-964-11	ELECT	10MF	20%	50V
	*A-1632-752-A	A BOARD COMPI	LETE (KV-25	X5K)		C039	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
		******	***			C040	1-163-189-00	CERAMIC CHIP	220PF	5%	50V
	*A-1632-751-A	A BOARD COMPI	LETE (KV-25	X5L)							
		******	***			C041	1-163-205-00	CERAMIC CHIP	0.001MF	10%	50V
	*A-1632-753-A	A BOARD COMPI	LETE (KV-25	X5R)		C042	1-126-933-11	ELECT	100MF	20%	16V
		*****	****			C043	1-126-935-11	ELECT	470MF	20%	16V
	*A-1632-749-A	A BOARD COMPI	LETE (KV-25	X5U)		C100	1-163-038-00	CERAMIC CHIP	0.1MF		25V
		******	***								(KV-25X5B)
	4-382-854-01	SCREW (M3X8)	, P, SW (+)			C103	1-104-665-11	ELECT	100MF	20%	25V
	4-382-854-11	SCREW (M3X10)), P, SW (+)		C105	1-126-965-11	ELECT	22MF	20%	50V
						C108	1-163-465-11	CERAMIC CHIP	9PF	0.25	PF 50V
	< CAP	ACITOR >				C109	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
						C110	1-163-038-00	CERAMIC CHIP	0.1MF		25V
:004	1-163-038-00	CERAMIC CHIP	0.1MF		25V						
2005	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	C111	1-216-296-00	SHORT	0 (KV	-25X5A/2	5X5D/25X5E/
2006	1-163-105-00	CERAMIC CHIP	33PF	5%	50V				KV	-25X5K/2	5X5L/25X5R/
007	1-126-935-11	ELECT	470MF	20%	16V				KV	-25X5U)	
2008	1-126-964-11	ELECT	10MF	20%	50V		1-163-059-00	CERAMIC CHIP	0.01MF		50V
											(KV-25X5B)
009	1-126-965-11		22MF	20%	50V						
:011	1-126-965-11	ELECT	22MF	20%	50V	C112		CERAMIC CHIP			50V
012	1-126-959-11	ELECT	0.47MF	20%	50V	C115	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
013	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C116	1-126-961-11	ELECT	2.2MF	20%	50V
:016	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C117	1-126-961-11	ELECT	2.2MF	20%	50V
						C118	1-163-038-00	CERAMIC CHIP	0.1MF		25V
018	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V						
:019	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C119	1-163-017-00	CERAMIC CHIP	0.0047MF	5%	50V
:022	1-126-935-11	ELECT	470MF	20%	16V						(KV-25X5B)
024	1-104-665-11	ELECT	100MF	20%	25V	C121	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C025	1-126-960-11	ELECT	1MF	20%	50V						(KV-25K5B)
						C122	1-104-665-11	ELECT	100MF	20%	25V
029	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V						(KV-25K5B)
		ELECT	100MF	20%	25V	C129	1-104-664-11		47MF	20%	50V



REF. NO.	PART.NO	DESCRIPTI	ON	ı	REMARK	REF. NO.	PART.NO	DESCRIPTION	ON	ı	REMARK	
C133	1-162-638-11	CERAMIC CHIP			16V	C401	1-163-141-00	CERAMIC CHIP		5%	50V	
C133	1-102-030-11	CERMITC CHIP	IME		(KV-25K5B)	C401	1-126-960-11	ELECT	1MF	20%	50V	
C134	1-128-551-11	ELECT	22MF	20%	25V	C403	1-163-017-00	CERAMIC CHIP		10%	50V	
C135	1-164-004-11	CERAMIC CHIP		10%	25V	C405	1-163-141-00	CERAMIC CHIP		5%	50V	
C133	1 104 004 11	CENAMIC CITE	O.IM	100	234	0403	1 103 141 00	CENAMIC CITE	U.UUIMI	30	301	
C137	1-163-017-91	CERAMIC	4700PF	10%	50V	C406	1-126-960-11	ELECT	1MF	20%	50V	
C138	1-165-319-11	CERAMIC CHIP			50V	C407	1-126-964-11	ELECT	10MF	20%	50V	
C139	1-163-031-11	CERAMIC CHIP			50V	C408	1-126-964-11	ELECT	10MF	20%	50V	
C140	1-163-031-11	CERAMIC CHIP			50V	C410	1-126-964-11	ELECT	10MF	20%	50V	
C143	1-104-664-11	ELECT	47MF	20%	25V	C413	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	
C160	1-163-017-91	CERAMIC	4700PF	10%	50V	C414	1-126-960-11	ELECT	1MF	20%	50V	
C201	1-104-666-11	ELECT	220MF	20%	25V	C415	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C203	1-126-942-61	ELECT	1000MF	20%	25V	C416	1-126-964-11	ELECT	10MF	20%	50V	
C204	1-126-942-61	ELECT	1000MF	20%	25V	C417	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	
C206	1-126-960-11	ELECT	1MF	20%	50V	C418	1-126-960-11	ELECT	1MF	20%	50V	
C207	1-126-972-11	ELECT	1000MF	20%	50V	C422	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C208	1-126-960-11	ELECT	1MF	20%	50V	C423	1-126-964-11	ELECT	10MF	20%	50V	
C215	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C430	1-104-664-11	ELECT	47MF	20%	25V	
C301	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C432	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	
C302	1-126-967-11	ELECT	47MF	20%	16V	C433	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	
C303	1-101-004-00	CERAMIC	0.01MF		50V	C434	1-126-935-11	ELECT	470MF	20%	16V	
C304	1-126-964-11	ELECT	10MF	20%	50V	C435	1-163-017-00	CERAMIC CHIP		10%	50V	
C305	1-163-005-11	CERAMIC CHIP		10%	50V	C436	1-163-017-00	CERAMIC CHIP		10%	50V	
C307	1-164-232-11	CERAMIC CHIP		10%	50V	C437	1-535-465-11	LEAD, JUMPER		100	301	
C308	1-164-004-11	CERAMIC CHIP		10%	25V	C438	1-535-465-11	LEAD, JUMPER				
0200	1 106 062 11	DI DOM	4.7MF	200	EOTZ	0443	1 100 105 00	GEDANTO	0.0047ME	100	50V	
C309 C312	1-126-963-11 1-163-099-00	ELECT CERAMIC CHIP		20% 5%	50V 50V	C443 C444	1-102-125-00 1-163-017-00	CERAMIC CHIP	0.0047MF	10% 10%	50V	
C312	1-163-099-00	CERAMIC CHIP		5% 5%	50V	C444 C445	1-163-017-00	CERAMIC CHIP		10%	50V	
C314	1-163-039-00	CERAMIC CHIP		Jo	25V	C501	1-103-017-00	ELECT	100MF	20%	50V	
C314	1-163-058-00	CERAMIC CHIP		5%	50V	C502	1-163-038-00	CERAMIC CHIP		20%	25V	
C317	1-136-169-00	FILM	0.22MF	5%	50V	C503	1-126-968-11		100MF	20%	50V	
C319	1-126-964-11		10MF	20%	50V	C504	1-106-220-00		0.1MF	10%	100V	
C321	1-126-963-11		4.7MF	20%	50V	C505	1-136-173-00		0.47MF	5%	50V	
C322		CERAMIC CHIP		10%	25V	C506		CERAMIC CHIP		10%	50V	
C328	1-104-664-11	ELECT	47MF	20%	25V	C507	1-126-933-11	ELECT	100MF	20%	16V	
C329	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C508	1-126-960-11	ELECT	1MF	20%	50V	
C330	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C509	1-137-047-11	FILM	0.01MF	10%	400V	
C331	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C510	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C332	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C512	1-162-114-00	CERAMIC	0.0047MF		2KV	
C333	1-126-960-91	ELECT	1MF	20%	50V	C513	1-107-662-11	ELECT	22MF	20%	250V	
C334	1-163-071-91	CERAMIC CHIP	4700PF	10%	50V	C515	1-104-666-11	ELECT	220MF	20%	25V	
C335		CERAMIC CHIP		10%	50V	C517	1-104-666-11		220MF	20%	25V	
C336		CERAMIC CHIP		10%	50V	C518	1-106-375-12		0.022MF	99%	200V	
C337		CERAMIC CHIP		10%	50V	C519		CERAMIC CHIP		5%	50V	
C338	1-126-967-11		47MF	20%	50V	C520		CERAMIC CHIP			25V	
C339	1-163-038-00	CERAMIC CHIP	0 1MF		25V	C522	1-130-495-00	FTT.M	0.1MF	5%	50V	
C359	1-163-036-00		4700PF	10%	50V	C522	1-130-493-00		10MF	ა 20%	50V	
C351	1-163-017-91		4700PF	10%	50V	C532		CERAMIC CHIP		10%	50V	
		/ 			J	5552		,	, ,			



REF. NO.	PART.NO	DESCRIPTI	ON		REMARK	REF. NO.	PART.NO	DESCR	IPTION		REMARK
C533	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C628	1-124-347-00	ELECT	100MF	20%	160V
					(KV-25X5B)	C629	1-136-189-00	FILM	0.1MF	10%	250V
C535	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C630	1-165-127-11	CERAMIC	470PF	10%	500V
C536	1-115-522-11	FILM	1MF	5%	200V	C633	1-104-332-11	CERAMIC	470PF	10%	2KV
C537	1-137-417-11	MYLAR	0.0047MF	10%	200V	C635	1-107-675-11	ELECT	1MF	20%	160V
C538	1-164-004-71			10%	25V	C638	1-107-670-11		10MF	20%	400V
C539	1-111-230-91	ELECT		20%	250V				(KV-25X5A/2		
C540	1-137-051-91			10%	200V				KV-25X5K/2		
C541	1-106-383-00			10%	200V		1-107-679-91	ELECT	10MF	20%	450V
											(KV-25X5R)
C542	1-162-134-11			10%	2KV						
C543	1-162-134-11	CERAMIC		10%	2KV	C639	1-104-665-11	ELECT	100MF	20%	25V
C544	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C640	1-104-664-11	ELECT	47MF	20%	25V
C545	1-126-960-11	ELECT	1MF	20%	50V	C641	1-104-665-11	ELECT	100MF	20%	25V
C546	1-130-895-00	FILM	0.056MF	5%	400V	C642	1-104-665-11	ELECT	100MF	20%	25V
						C646	1-107-974-11	CERAMIC	47PF	5%	2KV
C547	1-117-813-11			5%	200V						
C548	1-162-134-11	CERAMIC	470PF	10%	2KV		< FIL	TER >			
C550	1-107-638-11	ELECT		20%	160V						
C552	1-102-212-00	CERAMIC	820PF	10%	500V	CF101	1-404-134-00	TRAP, CER	AMIC (5.5MHZ)		
C553	1-137-417-11	MYLAR	0.0047MF	10%	200V	CF105	1-760-154-11	TRAP, CER	AMIC (KV-25)	(5B)	
C555	1-117-717-11	FILM	17000PF	3%	1.2KV	SWF101	1-767-874-11	FILTER, S	URFACE WAVE		
C571	1-123-024-21	ELECT	33MF		160V			(KV-25X5A/	25X5D/25X5E/2	25X5K/25	X5R/25X5U)
C572	1-104-665-11	ELECT	100MF	20%	25V		1-579-273-11	FILTER, S	URFACE WAVE		
C580	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V					(KV-25	X5B/25X5L)
C582	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V	SWF102	1-767-873-11	FILTER, S	URFACE WAVE		
C584	1-126-963-11	ELECT	4.7MF	20%	50V	SWF103	1-767-083-11	FILTER, S	URFACE WAVE	(KV-25	(X5B)
C601 Z	∆ 1-107-563-11	FILM	0.1MF	20%	300V					•	
C602 Z	△ 1-107-563-11	FILM	0.1MF	20%	300V		< CON	NECTOR >			
C603 Z	△ 1-117-700-51	CERAMIC	0.0022MF	20%	250V						
C604 Z	△ 1-117-700-51	CERAMIC	0.0022MF	20%	250V	CN001	*1-564-508-11	PLUG, CON	NECTOR 5P		
						CN007	*1-564-510-11	PLUG, CON	NECTOR 7P		
C605	1-104-652-11	ELECT	470MF	20%	10V	CN101	1-766-922-11	CONNECTOR	, BOARD TO BO	DARD 18F)
C606	1-125-555-11	ELECT (BLOCK)	330MF	20%	400V	CN201	*1-564-507-11	PLUG, CON	NECTOR 4P		
		(KV-25X5A/25X	5B/25X5D/25X5	E/25	X5L/25X5U)	CN208	*1-564-508-11	PLUG, CON	NECTOR 5P		
	1-117-752-11	ELECT (BLOCK)	330MF	20%	450V						
					(KV-25X5R)	CN406	1-564-511-11	PLUG, CON	NECTOR 8P		
						CN501	*1-580-798-11	CONNECTOR	PIN (DY) 6P		
C607	1-125-787-51	CERAMIC	680PF	10%	2KV	CN502	1-691-135-11	PIN, CONN	ECTOR (PC BOA	ARD) 4P	
C609	1-107-915-51	ELECT	2200MF	20%	50V	CN504	*1-564-509-11	PLUG, CON	NECTOR 6P		
C610	1-104-665-11	ELECT	100MF	20%	25V	CN506	1-695-915-11	TAB (CONT	ACT)		
C611	1-165-127-11	CERAMIC	470PF	10%	500V						
C612 Z	1-161-964-51	CERAMIC	0.0047MF		250V		△ 1-508-765-00				
							△ 1-508-786-00				•
	↑ 1-161-964-51 ↑ 1-161-964-51		0.0047MF 4700PF		250V 250V	CN606	△ *1-691-291-11	PIN, CONN	ECTOR (PC BOA	ARD) 5P	
C614 Z	1-130-202-00			10%	400V	•	< DIO	י אחו			
				108 208			< D10	ע פער			
C618	1-107-890-11				25V	D001	0_710 100 00	חורטם מסב	€¤¢¤?		
C621	1-103-003-11	CERAMIC CHIP	4/025	10%	50V	D001	8-719-109-89				
C622	A 1_161 064 E1	CEDAMIC	0 0047ME		25017	D002	8-719-109-89				
	1-161-964-51		0.0047MF	200	250V	D004	8-719-109-89 8-719-109-89				
C624	1-104-665-11			20% 20%	25V	D005					
C625	1-104-665-11	ELECT	100MF	20%	25V	D007	8-719-109-89	סמא שמחדת	. UESBZ		



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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK	
D008	8-719-991-33	DIODE 1SS133T-77		D539	8-719-900-26	DIODE ERD29-08J		
D000		DIODE RD5.6ESB2		D541		LEAD, JUMPER (5.0MM)		
D010		DIODE RD5.6ESB2		D571		DIODE 1SS119-25		
D011	8-719-109-89	DIODE RD5.6ESB2		D573	8-719-921-40	DIODE MTZJ-4.7C		
D012	8-719-914-43	DIODE DAN202K		D601	8-719-510-53	DIODE D4SB60L		
D014	8-719-058-24	DIODE RB501V-40TE-17		D602	8-719-046-74	DIODE AU-01Z-V1		
D015	8-719-914-43	DIODE DAN202K		D603	8-719-312-61	DIODE EU-1Z		
D017		DIODE RD5.6ESB2		D605		DIODE RU4AM-T3		
D018		DIODE 1SS133T-77		D608		DIODE RG1CLF-B1		
	0 510 100 00			2010	0 510 005 50			
D023		DIODE RD5.6ESB2		D610		DIODE RN3Z-LF014-302		
D101		DIODE MTZJ-33A		D613		DIODE 1SS119-25		
D104		DIODE DAN202K	(KV-25X5B)	D614		DIODE FMN-G12S		
D201		DIODE HZS9.1NB2		D619	8-719-043-76	DIODE AK04V0		
D202	8-719-914-43	DIODE DAN202K		D621	8-719-068-00	DIODE ERC04-06SE		
D204	8-719-109-89	DIODE RD5.6ESB2		D626	8-719-068-00	DIODE ERC04-06SE		
D205	8-719-109-89	DIODE RD5.6ESB2		D627	8-719-510-26	DIODE D1NL20		
D206		DIODE RD5.6ESB2		D628		DIODE P6KE200AG23		
D306		DIODE RD5.6ESB2		D629		DIODE UF4005PKG23		
D307		DIODE RD5.6ESB2		D631		DIODE RD12ES-B2		
D301	0-719-109-09	DIODE RDJ. 0ESB2		D031	0-719-110-31	DIODE RDIZES-BZ		
D308	8-719-109-72	DIODE RD3.9ESB2		D632	8-719-510-64	DIODE S2LA20F		
D309	8-719-991-33	DIODE 1SS133T-77		D633	8-719-109-89	DIODE RD5.6ESB2		
D320	8-719-923-67	DIODE MTZJ-9.1B						
D402		DIODE MTZJ-5.6B			< FEF	RITE BEAD >		
D405		DIODE RD6.8ESB2						
2.00	0 125 205 51	21022 18010202		FB001	1-412-911-11	FERRITE OUH		
D406	8-719-109-97	DIODE RD6.8ESB2		FB002	1-412-911-11			
D407		DIODE RD6.8ESB2		FB601	1-412-911-11			
D408		DIODE MTZJ-9.1B		FB602	1-412-911-11			
D409		DIODE RD6.8ESB2		FB605	1-410-397-21			
D410		DIODE MTZJ-5.6B		15005	1 410 557 21	111111111		
2.24	0 /25 525 50	21021 0.02		FB608	1-412-911-11	FERRITE OUH		
D414	8-719-109-97	DIODE RD6.8ESB2		FB609	1-535-465-11	LEAD, JUMPER (5.0MM)		
D415	8-719-929-15	DIODE HZS9.1NB2		FB610	1-410-397-21	FERRITE 1.1UH		
D417		DIODE HZS9.1NB2		FB611		FERRITE 1.1UH		
D418		DIODE MTZJ-9.1B		FB612		LEAD, JUMPER (5.0MM)		
D419		DIODE MTZJ-9.1B			- 000 100	22.27		
					< IC	>		
D422	8-719-109-97	DIODE RD6.8ES-B2						
D423	8-719-109-97	DIODE RD6.8ESB2		IC001		IC SAA5497PS/M1A/040 (KV		
D427	8-719-923-67	DIODE MTZJ-9.1B			8-759-526-01	IC SAA5497PS/M1A/038 (KV-	-25X5B/25X5E/25X	(5K/
D501	8-719-302-43	DIODE EL1Z				KV-	-25X5L/25X5U)	
D502	8-719-924-13	DIODE MTZJ-T-77-22B			8-759-525-77	IC SAA5497PS/M1A/039 (KV-	-25X5R)	
				IC003	8-759-468-56	IC MN1381T	·	
D511		DIODE RGP02-17EL-6433						
D512	8-719-302-43			IC004		IC ST24W08FM6TR		
D513	8-719-979-85	DIODE EGP20G		IC005		IC CD4052BCM		
D514	8-719-979-85	DIODE EGP20G		IC101	8-759-466-49	IC TDA9817/V1 (KV-25X5A/		K/
D534	8-719-302-43	DIODE EL1Z			0 750 444 45		25K5R/25K5U)	
D535	8-719-908-03	DIODE GPORD			8-759-466-47	IC TDA9818/V1 (KV-25X5B)		
D535		DIODE ERC06-15S		IC201	8-759-442-74	TC TDA7495		
D538	8-719-945-80			IC301		IC CXA2060AS		
סכנע	0-113-300-03	PIONE GLACK		10301	0-134-004-33	TO CAMEAOAND		
			-	1				



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPT	ION	REMARK
C501	8-759-192-71	IC STV9379			< TRA	NSISTOR >		
C531	8-759-450-95	IC LM393N						
C603	8-749-920-61	IC SE135N		Q004	8-729-216-22	TRANSISTOR 2	2SA1162-G	
C604	8-759-524-82	IC TYA7805CTV		Q005	1-801-806-11	TRANSISTOR I	TC144EKA	
				Q006	1-801-806-11			
:605	8-759-524-83	IC TYA7809CTV		Q007	8-729-620-06			
2606		IC STR-F6654		Q008	8-729-620-06			
2608		IC TYA7805CTV		2000	0 725 020 00		-500001	
2609	8-759-468-89			Q009	8-729-620-06	TDANGTOTOD C) SC3052_FF	
003	0 755 400 05	10 1012031		Q010	8-729-620-06			
	< nii0	TO COUPLER >		Q010 Q011	1-801-806-11			
	\ Pho	10 COUPLER >						
C01 A	0.740.010.64	DUOMO COURTER DOL	0000	Q012	8-729-620-06			
601 A	8-749-010-64	PHOTO COUPLER PC12	23f2	Q014	8-729-120-28	TRANSISTOR 2	2SC1623-L5L6)
	< SOC	KET >		Q101	8-729-216-22	TRANSISTOR 2	2SA1162-G	
				Q107	8-729-022-54	TRANSISTOR 2	2SC3779C,D-#	AA (KV-25X5B)
01	1-766-296-11	CONNECTOR, DUAL SO	CART	Q109	1-801-806-11	TRANSISTOR I	TC144EKA	(KV-25X5B)
04	1-784-632-11	·		Q110	1-801-806-11			
		•		Q111	8-729-216-22			
	< COI	L >		_	-			,,
				Q112	1-801-806-11	TRANSISTOR I	TC144EKA	(KV-25X5B)
01	1-408-603-31	INDUCTOR 100	UH	Q202	8-729-620-06	TRANSISTOR 2	2SC3052-EF	
02	1-408-599-21	INDUCTOR 4.7	7UH	Q401	8-729-920-72	TRANSISTOR 2	2SA1037K	
03	1-403-686-11	COIL		Q405	8-729-120-28	TRANSISTOR 2	2SC1623-L5L6	5
.04	1-410-671-31	INDUCTOR 470	UH	Q408	8-729-120-28	TRANSISTOR 2	2SC1623-L5L6	5
06	1-408-417-00			_				
				Q501	8-729-620-06	TRANSISTOR 2	2SC3052-EF	
08	1-410-985-11	INDUCTOR CHIP 0.2	22UH (KV-25X5B)	Q532	8-729-038-83			719
09	1-410-789-11		47UH (KV-25X5B)	Q532 Q533	8-729-040-62			
01		LEAD, JUMPER (5.0)		Q535	8-729-119-80		-	1
202		LEAD, JUMPER (5.0)		Q571	8-729-105-08			;
203	1-406-979-11			23/1	5 127 103 00	114110101010101		•
				Q574	8-729-120-28	TRANSISTOR 2	2SC1623-L5L6	5
302	1-408-417-00	INDUCTOR 470	UH	Q575	1-801-806-11	TRANSISTOR I	TC144EKA	
03	1-408-609-41			Q576	8-729-120-28			
01	1-408-417-00			Q601	8-729-216-22			
02	1-408-417-00				, 		· •	
05	1-216-295-00				< RES	ISTOR >		
		7.1.V-1.2			\ nec			
06	1-216-295-00			JR012	1-216-295-00	SHORT		25X5A/25X5D/25X5E/
01	1-408-417-00							25X5K/25X5L/25X5R/
02	1-412-529-11						KV-2	?5X5U)
03	1-412-521-31	INDUCTOR 4.7	7UH	JR023	1-216-296-00	SHORT	0	
32	1-412-553-41	INDUCTOR 3.3	ЗММН	JR031	1-216-295-00	SHORT	0	
33	1-406-989-21	INDUCTOR OUR	H	JR113	1-216-295-00	SHORT	0	
35	1-459-111-00			JR403	1-216-233-00		10K 5%	1/10W
37		COIL, HORIZONTAL I		JR403	1-216-295-00		0	1,1011
		·						
40		LEAD, JUMPER (5.0)	·	JR411	1-216-295-00		0	
71	1-412-533-21	INDUCTOR 470	UH	JR412	1-216-295-00	SHURT	0	
502	1-408-471-00	INDUCTOR 470	UH	JR610	1-216-296-00	SHORT	0	
				JR613	1-216-296-00		0	
				JW220	8-719-923-38		5.6B	
				•		. =	-	
				R001	1-216-025-00	RES, CHIP	100 5%	1/10W



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REF. NO.	PART.NO	DESCRI	PTION		REMARK	REF. NO.	PART.NO	DESCRIPTION	N		RE	EMARK
R002	1-216-025-00	RES,CHIP	100	5%	1/10W	R081	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R003	1-216-065-00	RES, CHIP	4.7K	5%	1/10W	R082	1-216-053-00	RES, CHIP	1.5K	5%	1/10W	
R004	1-216-065-00	RES, CHIP	4.7K	5%	1/10W	R083	1-216-031-00	RES, CHIP	180	5%	1/10W	
R005	1-216-065-00	RES, CHIP	4.7K	5%	1/10W	R084	1-216-053-00	RES, CHIP	1.5K	5%	1/10W	
R007	1-216-065-00	RES, CHIP	4.7K	5%	1/10W	R085	1-216-031-00	RES,CHIP	180	5%	1/10W	
5000	1 016 005 00	DEG 6"TD	100	F 0	1 /1 0**	2006	1 016 050 00	222 222	1 5	F 0	1 /1 000	
R009	1-216-025-00	•	100	5% 5°	1/10W	R086	1-216-053-00	•	1.5K		1/10W	
R010	1-216-025-00	•	100	5% 5°	1/10W	R087	1-216-180-00	•	180	5% 5°	1/8W	
R011	1-216-025-00	•	100	5% 5°	1/10W	R088	1-216-065-00	•	4.7K		1/10W	
R012	1-247-807-31		100	5% 5°	1/4W	R093	1-216-230-00	•	22K	5% 5 ^	1/8W	
R013	1-216-214-00	RES, CHIP	4.7K	5%	1/8W	R094	1-216-057-00	RES, CHIP	2.2K	5%	1/10W	
R014	1-216-057-00	RES, CHIP	2.2K	5%	1/10W	R095	1-216-025-00	RES,CHIP	100	5%	1/10W	
R015	1-216-049-00	RES,CHIP	1K	5%	1/10W	R096	1-247-807-31	CARBON	100	5%	1/4W	
R016	1-216-073-00	RES, CHIP	10K	5%	1/10W	R097	1-247-807-31	CARBON	100	5%	1/4W	
R019	1-216-053-00	RES, CHIP	1.5K	5%	1/10W	R098	1-247-807-31	CARBON	100	5%	1/4W	
R023	1-216-295-00	SHORT	0			R099	1-247-807-31	CARBON	100	5%	1/4W	
R029	1-216-073-00	RES, CHIP	10K	5%	1/10W	R101	1-216-049-00	RES,CHIP	1K	5%	1/10W	
R032	1-216-089-00	•	47K	5%	1/10W	R106	1-215-900-11	·	22K	5%		F
R034	1-216-065-00	RES, CHIP	4.7K	5%	1/10W	R110	1-216-296-91	SHORT	0			(KV-25X5B)
R035	1-216-049-00	•	1K	5%	1/10W	R111	1-216-057-00		2.2K	5%	1/10W	(KV-25X5B)
R036	1-216-065-00	•	4.7K	5%	1/10W	R112	1-216-057-00	•	2.2K			(KV-25X5B)
R038	1-216-073-00	BES CHID	10K	5%	1/10W	R116	1-249-437-11	CARBON	47K	5%	1/4W	
R039	1-216-089-00	•	47K	5%	1/10W	KII	1 247 457 11	CHILDON	4/10			5X5K/25X5U)
R050	1-216-041-00	•	470	5%	1/10W	R120	1-216-037-00	RES CHIP	330	5%	1/10W	JASK/ 25A50 /
R051	1-216-049-00	•	1K	5%	1/10W	R121	1-216-025-00	•	100	5%	1/10W	
R053	1-216-045-00	•	4.7K		1/10W	R122	1-216-025-00	,	100	5%	1/10W	
NOSS	1 210 003 00	RED, CHIE	7.7K	J 0	1/10#	NIZZ	1 210 025 00	KED, CHII	100	J.0	1/10#	
R054	1-216-041-00	RES, CHIP	470	5%	1/10W	R127	1-216-031-00	RES,CHIP	180	5%	1/10W	(KV-25X5B)
R055	1-216-081-00	RES,CHIP	22K	5%	1/10W	R128	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	(KV-25X5B)
R056	1-216-105-00	RES,CHIP	220K	5%	1/10W	R129	1-216-063-91	RES,CHIP	3.9K	5%	1/10W	(KV-25X5B)
R057	1-216-075-00	RES,CHIP	12K	5%	1/10W	R133	1-216-295-00	SHORT	0 (KV	-25X5	A/25X5D,	/25X5E/25X5K/
R058	1-216-063-91	RES,CHIP	3.9K	5%	1/10W				KV	'-25X5	L/25X5R,	/25X5U)
R059	1-216-089-00	RES, CHIP	47K	5%	1/10W	R142	1-216-295-00	SHORT	0			
R060	1-216-174-00		100	5%	1/8W	R143	1-216-025-00		100	5%	1/10W	
R061	1-216-174-00	RES, CHIP	100	5%	1/8W	R144	1-216-079-00	RES, CHIP	18K	5%	1/10W	
R062	1-216-033-00	RES, CHIP	220	5%	1/10W	R145	1-216-212-00	RES, CHIP	3.9K	5%	1/8W	
R063	1-216-065-00	RES, CHIP	4.7K	5%	1/10W	R147	1-216-017-91	RES,CHIP	47	5%	1/10W	(KV-25X5B)
R064	1-216-065-00	RES CHID	4.7K	5%	1/10W	R148	1-216-174-00	RES_CHIP	100	5%	1 / RW	(KV-25X5B)
R065	1-216-025-00	•		5%	1/10W	R149	1-216-049-00	•	1K	5%		(KV-25X5B)
R066	1-216-065-00	•	4.7K		1/10W	R151	1-216-049-00	•	1K	5%	1/10W	•
R067	1-216-065-00	•	4.7K		1/10W	R152	1-216-025-00	•	100	5% 5%		(KV-25X5B)
R069	1-216-049-00	•	1K	5%	1/10W	R153	1-216-180-00	•	180	5% 5%		(KV-25X5B)
1005	1 210 045 00	1420 / 01111		•	2/2011	11233	1 210 100 00	120 / 01111	100	•	1,011	(MY ESHOD)
R070	1-216-081-00			5%	1/10W	R154	1-216-238-91	•	47K	5%	1/8W	
R071	1-216-214-00		4.7K		1/8W	R155	1-216-089-00	•	47K	5%	1/10W	
R072	1-216-097-00		100K		1/10W	R156	1-216-073-00	•	10K	5%		(KV-25X5B)
R073	1-216-097-00		100K		1/10W	R157	1-216-063-91	•	3.9K			(KV-25X5B)
R075	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R158	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	(KV-25X5B)
R077	1-216-083-00	RES, CHIP	27K	5%	1/10W	R204	1-247-863-91	CARBON	22K	5%	1/4W	
R080	1-216-073-00			5%	1/10W	R206	1-216-085-00		33K	5 %	1/10W	
-		- , =			•			- ,		. •	,	



REF. NO.	PART.NO	DESCRIPTION	ON		REMARK	REF. NO.	PART.NO	DESCRIPTI	ON		RI	EMARK
R207	1-216-295-00		0			R417	1-247-804-11	CARBON	75	5%	1/4W	
R209	1-216-065-00	•	4.7K		1/10W							5X5D/25X5E/
R211	1-215-873-00		4.7K		1W F						25X5L/2	•
R213	1-216-089-00	RES, CHIP	47K	5%	1/10W		1-247-698-11		68	5%		(KV-25X5U)
R301	1-216-025-00	RES, CHIP	100	5%	1/10W	R418	1-260-095-11		470	5%	1/2W	
								(KV-	25X5A/2	25X5D/	25X5E/2	5X5L/25X5R)
R302	1-216-081-00	RES,CHIP	22K	5%	1/10W		1-249-413-11	CARBON	470	5%	1/4W	
R303	1-216-073-00	RES,CHIP	10K	5%	1/10W						(KV-2	5X5B/25X5K)
R304	1-216-073-00	RES,CHIP	10K	5%	1/10W		1-249-414-11	CARBON	560	5%	1/4W	(KV-25X5U)
R306	1-216-206-00	RES,CHIP	2.2K	5%	1/8W							
R309	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	R419	1-216-022-00	RES,CHIP	75	5%	1/10W	
						R420	1-216-041-00	RES,CHIP	470	5%	1/10W	
R310	1-216-022-00	RES,CHIP	75	5%	1/10W	R421	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R311	1-216-022-00	RES,CHIP	75	5%	1/10W	R422	1-216-295-00	SHORT	0			
R313	1-216-025-00	RES, CHIP	100	5%	1/10W	R425	1-216-077-00	RES, CHIP	15K	5%	1/10W	
R314	1-216-025-00		100	5%	1/10W							
R315	1-216-075-91	•	12K	5%	1/10W	R426	1-216-073-00	RES, CHIP	10K	5%	1/10W	
						R427	1-216-113-00		470K		1/10W	
316	1-216-025-00	RES, CHIP	100	5%	1/10W	R429	1-216-041-00		470	5%	1/10W	
317	1-216-049-00	•	1K	5%	1/10W	R430	1-216-113-00		470K		1/10W	
318	1-216-025-00		100	5%	1/10W	R431	1-216-295-00		0		., 2011	
319	1-216-025-00		100	5%	1/10W				-			
320	1-216-025-00	•	100	5%	1/10W	R432	1-216-113-00	RES, CHIP	470K	5%	1/10W	
		, •			-, 	R435	1-216-022-00		75	5% 5%	1/10W	
321	1-216-025-00	RES CHIP	100	5%	1/10W	R436	1-216-041-00		470	5%	1/10W	
323	1-216-025-00		100	5% 5%	1/10W	R439	1-216-041-00		470	5%	1/10W	
324	1-412-002-21		4.7UH		1/ 1VII	R439	1-216-041-00		470K		1/10W	
325	1-412-002-21		4.7UH			1440	1 210-113-00	MEO / CHIE	- 1 VIV	J 0	1/ 10W	
R326	1-216-129-00		2.2M		1/10W	R441	1-216-295-00	SHORT	0			
.J2U	T-510-152-00	MED, CHIP	2.ZM	Jõ	1/100	R441 R442	1-216-295-00			E C	1/10W	
221	1_014 057 00	מדות מוודה	2 25	E 0.	1 /1 014				15K	5% ⊑∘		
R331	1-216-057-00	•	2.2K		1/10W	R443	1-216-073-00		10K	5% ⊑∘	1/10W	
R332	1-216-057-00	•	2.2K		1/10W	R450	1-216-041-00	•	470	5% €°.	1/10W	
3333	1-216-057-00	•	2.2K		1/10W	R454	1-216-041-00	KES, CHIP	470	5%	1/10W	
334	1-216-025-00	•	100	5% = 0	1/10W	5455	1 016 005 00	DEG 2017	100	F.0	1 /4 ^	
335	1-216-025-00	RES, CHIP	100	5 %	1/10W	R457	1-216-025-00	•	100	5% 5 °	1/10W	
.005	4 044 44- 4-		,	F.	4 /4 0	R459	1-247-807-31		100	5% = ^	1/4W	
337	1-216-065-00		4.7K		1/10W	R460	1-249-403-11		68	5% - ∘	1/4W	
1338	1-216-049-00		1K	5 %	1/10W	R501	1-216-081-00	•	22K		1/10W	
401	1-216-113-00		470K	5%	1/10W	R502	1-216-097-00	RES, CHIP	100K	5%	1/10W	
402		CONDUCTOR CH		_						_		
403	1-216-041-00	RES,CHIP	470	5%	1/10W	R503	1-215-888-00		220		2W	
						R504	1-249-385-11		2.2		1/4W	
404	1-216-113-00	RES, CHIP	470K	5%	1/10W	R505	1-216-065-00	•	4.7K		1/10W	
405	1-216-295-00	SHORT	0			R506	1-216-061-00	RES, CHIP	3.3K	5%	1/10W	
R406	1-216-113-00	RES, CHIP	470K	5%	1/10W	R507	1-216-349-00	METAL OXIDE	1	5%	1W	F
408	1-216-022-00	RES, CHIP	75	5%	1/10W							
409	1-216-029-71	RES, CHIP	150	5%	1/10W	R508	1-216-065-00	RES, CHIP	4.7K	5%	1/10W	
						R509	1-216-061-00	RES, CHIP	3.3K	5%	1/10W	
410	1-216-029-71	RES, CHIP	150	5%	1/10W	R510	1-216-081-00		22K		1/10W	
411	1-216-022-00		75	5%	1/10W	R511	1-215-869-11		1K	5%	1W	
R412	1-216-029-71		150	5%	1/10W	R512	1-249-377-11		0.47		1/4W	
413	1-216-295-00		0								•	
R414	1-216-022-00		75	5%	1/10W	R513	1-216-097-00	RES, CHIP	100K	5%	1/10W	
	 	, 	. •			R514	1-249-377-11		0.47		1/4W	
						1					-, •	



REF. NO.	PART.NO	DESCRIPTION	ON		REMARK	REF. NO.	PART.NO	DESCRIPTION	NC		R	EMARK
R516	1-249-493-11	CARBON	56K	5%	1/2W	R603	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R517	1-249-434-11	CARBON	27K	5%	1/4W	R607 △	1-202-961-11	CEMENTED	1.8	5%	10W	
R518	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R608	1-215-927-00	METAL OXIDE	47K	5%	3W	F
R520	1-215-884-11	METAL OXIDE	47	5%	2W F	R611	1-249-415-11	CARBON	680	5%	1/4W	
R521	1-216-117-00	RES, CHIP	680K	5%	1/10W	R613 △	1-240-030-91	METAL	4.7M	5%	1/2W	
R522	1-216-097-00	RES, CHIP	100K	5%	1/10W	R614 △	1-240-030-91	METAL	4.7M	5%	1/2W	
R523	1-216-121-91	RES, CHIP	1M	5%	1/10W	R615	1-249-422-11	CARBON	2.7K	5%	1/4W	
R524	1-216-083-91	RES, CHIP	27K	5%	1/10W	R616	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R525	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R617	1-249-405-11	CARBON	100	5%	1/4W	F
R526	1-216-089-00	RES,CHIP	47K	5%	1/10W	R619	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	1
R527	1-216-077-00	RES, CHIP	15K	5%	1/10W	R622	1-249-401-11	CARBON	47	5%	1/4W	
R528	1-216-246-00	RES, CHIP	100K	5%	1/8W	R627	1-249-389-11	CARBON	4.7	5%	1/4W	F
R529	1-216-073-00	RES, CHIP	10K	5%	1/10W	R628	1-247-791-91	CARBON	22	5%	1/4W	
R530	1-216-085-00	RES, CHIP	33K	5%	1/10W	R652	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R531	1-216-057-00	RES, CHIP	2.2K	5%	1/10W	R653	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R532	1-216-063-91	RES, CHIP	3.9K	5%	1/10W	R658	1-215-929-11	METAL OXIDE	100K	5%	3W	F
R533	1-216-073-71	RES, CHIP	10K	5%	1/10W	R659	1-216-383-21	METAL OXIDE	0.33	5%	3W	F
R534	1-216-105-91	RES,CHIP	220K	5%	1/10W	R660	1-216-384-21	METAL OXIDE	0.39	5%	3W	F
R535	1-216-109-00	RES, CHIP	330K	5%	1/10W	R661	1-247-843-91	CARBON	3.3K	5%	1/4W	
R539	1-216-049-00	RES,CHIP	1K	5%	1/10W	R662	1-215-929-11	METAL OXIDE	100K	5%	3W	F
R540	1-215-861-21	METAL OXIDE	47	5%	1W F	R664	1-249-417-11	CARBON	1K	5%	1/4W	
R541	1-216-097-00	RES, CHIP	100K	5%	1/10W	R665	1-215-877-11	METAL OXIDE	22K	5%	1W	F
R542	1-216-089-00	RES, CHIP	47K	5%	1/10W	R667	1-215-927-00	METAL OXIDE	47K	5%	3W	F
R543	1-216-089-00	RES, CHIP	47K	5%	1/10W							
R546	1-249-401-11	CARBON	47	5%	1/4W F		< VA	RIABLE RESISTO	R >			
R547	1-535-143-71	LEAD, JUMPER	(7.5MM	1)		RV101	1-241-765-11	RES, ADJ, CA	RBON 22	K (KV	-25X5B)	
R548	1-216-397-11	METAL OXIDE	4.7	5%	3W F							
R549	1-216-341-11	METAL OXIDE	0.22	5%	1W F		< REI	LAY >				
R551	1-215-873-21	METAL OXIDE	4.7K	5%	1W F							
R552	1-216-061-00	RES, CHIP	3.3K	5%	1/10W	RY601 A	1-755-245-11	RELAY, AC PO	WER			
R553	1-249-381-11	CARBON	1	5%	1/4W F		< SW]	ITCH >				
R571	1-249-417-11	CARBON	1K	5%	1/4W F							
R572	1-216-369-00	METAL OXIDE	1	5%	2W F	SW532	1-572-707-11	SWITCH, LEVE	R			
R573	1-216-097-00	•	100K		1/10W							
R574	1-216-065-00	RES, CHIP	4.7K	5%	1/10W		< TRI	ANSFORMER >				
R575	1-216-097-00	RES, CHIP	100K		1/10W	T511 △	1-453-264-11	TRANSFORMER A	ASSY, E	LYBAC	K (NX-1	680/U2B4)
R576	1-249-399-11		33K	5%	1/10W	T531	1-437-195-11	TRANSFORMER,	HORIZO	NTAL 1	DRIVE	
R581	1-216-089-00	RES, CHIP	47K	5%	1/10W	T532		TRANSFORMER,				
R582	1-216-089-00	RES, CHIP	47K		1/10W	T601 △	1-427-962-11	TRANSFORMER,	LINE E	TILTER		
R583	1-216-081-00	RES, CHIP	22K	5%	1/10W	T602	1-431-732-11	TRANSFORMER,	CONVE	RTER (SRT)	
R588	1-216-053-00	•	1.5K		1/10W	T603 △	1-431-777-11	TRANSFORMER,	CONVE	RTER		
R589	1-216-097-00	•	100K		1/10W							
R590	1-216-081-00	RES, CHIP	22K	5%	1/10W		< THE	ERMISTOR >				
R591	1-215-892-11	METAL OXIDE	1K	5%	2W F							
R593	1-249-439-11	CARBON	68K	5%	1/4W	THP601 △	1-810-961-11	THERMISTOR,	POSITIV	Æ		
R594	1-216-057-00	RES,CHIP	2.2K	5%	1/10W							
R602	1-202-961-11	CEMENTED	1.8	5%	10W							



REF. NO.	PART.NO	DESCRIP	PTION		REMARK	REF. NO.	PART.NO	DESCRIPTI	ON		ı	REMARK
	< TUN	IER >				D711	1-216-349-51	METAL OXIDE	1		5%	1W
						D714	8-719-991-33	DIODE 1SS133	T-77			
TU101	1-693-418-11	TUNER (TEL	E9-001A)	(KV-25)	K5A/25X5B/	D715	8-719-991-33	DIODE 1SS133	T-77			
		•	,		(5D/25X5L)	D716		DIODE 1SS133				
	8-598-432-00	TUNER (BTP-	-AC411)		K5E/25X5K)	D717		DIODE 1SS133				
	8-598-361-00			(KV-25)	•	3/12/	0 713 331 33	D10D2 100100	• ''			
	8-598-464-01	-	•	(KV-25)	•	D718	9_710_001_33	DIODE 1SS133	T-77			
	0-390-404-01	TONER (DIF	-AUUII)	(NV-252	200)	D719		DIODE 188133				
	∠ CDV	remat \				0/13	0-719-991-33	DIODE 199133	1-11			
	< CRI	STAL >					< CRI	SOCKET >				
X001	1-578-774-11	VIBRATOR, (CRYSTAL									
X302	1-567-505-11	OSCILLATOR	, CRYSTAL			J701 🛆	1-526-990-21	SOCKET, CRT				
X303	1-567-504-11		•					,				
	- *** ***	***************************************	,				< CO1	IT >				
******	******	******	******	******	******							
	+3 1600 111 -	0 DO3DD 00	ADI EMP			L704	1-408-609-41	INDUCTOR	33UE	I		
	*A-1638-111-A	C BOARD COI				1	. ===					
		******	*****				< TRA	ANSISTOR >				
	< CAF	PACITOR >				Q702	8-729-119-78	TRANSISTOR 2	SC2785-	HFE		
						Q703		TRANSISTOR B				
C701	1-102-114-00	CERAMIC	470PF	10%	50V	Q704		TRANSISTOR B				
C702	1-102-115-00		560PF	10%	50V	Q705		TRANSISTOR 2				
C702	1-102-116-00		680PF	10%	50V	Q706		TRANSISTOR B				
C708	1-162-114-00		0.0047MF	10%	2KV	2700	0-129-900-10	TRANSISTOR B	F0/1-12	.,		
				200		0707	0 700 000 17	TRANSISTOR B	E4017 7	1010		
C710	1-107-652-11	FLECT	10MF	20%	250V	Q707						
2711	1 100 111 00		450	100	F 0	Q708		TRANSISTOR 2				
C711	1-102-114-00		470PF	10%	50V	Q709		TRANSISTOR B				
C712	1-102-116-00		680PF	10%	50V	Q710	8-729-200-17	TRANSISTOR B	F421L- <i>F</i>	OMMA		
C714	1-126-967-11		47MF	20%	16V							
C717	1-102-114-00		470PF	10%	50V		< RES	SISTOR >				
C718	1-102-114-00	CERAMIC	470PF	10%	50V							
						R701	1-247-895-91		470K	5%	1/4W	
C719	1-102-114-00	CERAMIC	470PF	10%	50V	R704	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
C722	1-101-880-00	CERAMIC	47PF	5%	50V	R705	1-260-103-11	CARBON	2.2K	5%	1/2W	
C723	1-101-880-00	CERAMIC	47PF	5%	50V	R706	1-247-815-91	CARBON	220	5%	1/4W	
C724	1-101-880-00	CERAMIC	47PF	5%	50V	R707	1-247-815-91	CARBON	220	5%	1/4W	
	< CON	NECTOR >				R708	1-247-791-91		22	5%	1/4W	
~~~	1 704 600 11					R709	1-202-844-00		330K		1/2W	
CN701	1-784-633-11					R711	1-247-843-11		3.3K		1/4W	
CN702	1-695-915-11		-			R712	1-260-103-11		2.2K		1/2W	
CN703	*1-564-509-11	PLUG, CONNI	ECTOR 6P			R713	1-247-875-91	CARBON	68K	5%	1/4W	
	< DIC	DDE >				R714	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
						R715	1-249-417-11		1K	5%	1/4W	
D702	8-719-991-33	DIODE 1SS1	33T-77			R716	1-247-815-91		220	5%	1/4W	
D702	8-719-991-33					R717	1-247-815-91		220	5% 5%	1/4W	
D704	8-719-991-33					R718	1-202-814-11			3° 10%	1/2W	
D704 D705	8-719-991-33					1,10	1 705 014-11	20110	JJK	±V-0	1/41	
						D710	1_247 701 01	CADDON	22	E 0.	1 / 417	
D706	8-719-991-33	DIONE 1221	221-11			R719	1-247-791-91		22	5% ⊑∘	1/4W	
D707	0 710 001 00	DT0DE 1221	00m 77			R720	1-247-843-11		3.3K		1/4W	
D707	8-719-991-33					R722	1-202-848-00		680K		1/2W	
D708	8-719-991-33					R723	1-249-417-11		1K	5%	1/4W	
D709	8-719-991-33					R724	1-260-131-11	CARBON	470K	5%	1/2W	
D710	8-719-991-33	DIODE 1SS1	33T-77			1						



.0S-CD (D901) NB2 NB2 SS-B2		
(D901) .NB2 .NB2		
(D901) .NB2 .NB2		
NB2 NB2		
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S-B2		
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81-51		
47UH		
47UH		
10UH		
10UH		
100 5%	1/4W	
5.6K 5%	1/4W	
47K 5%	1/4W	
220 5%	1/2W	
220 5%	1/2W	
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47 5%	1/4W	
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	1/4W	
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22K 5%	1/4W	
(AC POWER)	
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ILE!		
	47UH 47UH 47UH 10UH 10UH 10UH 100 5% 5.6K 5% 47K 5% 220 5% 220 5% 470K 5% 470K 5% 470K 5% 470K 5% 470K 5% 227K 5% 22K 5%	2-77-9.1A 2-77-9.1A 2-77-9.1A 2-77-9.1A 3-77-9.1A 3-77-9

S1

REF. NO.	PART.NO	DESCRIPTION	ON	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
	*A-1652-053-A		PLETE (KV-25X5A/2	25X5D/25X5R)	C1150	1-126-960-11		
		*****			C1151	1-104-664-11		7MF 20% 25V
	*A-1652-056-A	S1 BOARD COM	PLETE (KV-25X5B) ****		C1152	1-164-004-11	CERAMIC CHIP 0	.1MF 10% 25V
	*A-1652-052-A		PLETE (KV-25X5E/2 ***** KV-25K5L/2			< FII	TER >	
	< CNT		·	,	CF1101	1-409-327-00	TRAP, CERAMIC	(6.5MHZ) (KV-25X5B)
	< CAF	ACITOR >				< CON	NECTOR >	
1103	1-164-232-11	CERAMIC CHIP	0.01MF 10%	50V				
1106	1-164-232-11	CERAMIC CHIP		50V	CN1101	1-766-925-11	CONNECTOR, BOAR	RD TO BOARD 18P
1107		CERAMIC CHIP		50V				
1108		CERAMIC CHIP		50V		< DIC	DE >	
L109	1-104-664-11	ELECT	47MF 20%	25V				
					D1101	8-216-295-00		(
1112		CERAMIC CHIP		50V		8-719-066-72	DIODE BB135	(KV-25X5B/25X5E/25X5K/
1113	1-104-664-11		47MF 20%	25V				KV-25X5L/25X5U)
114		CERAMIC CHIP		50V				
1115	1-104-664-11		47MF 20%	25V		< FEF	RITE BEAD >	
118	1-162-637-11	CERAMIC CHIP	U.47MF	16V		4 440 000 ::		A 45****
			A 45		FB1101	1-410-396-41		0.45UH
.120		CERAMIC CHIP		25V	FB1102	1-410-396-41		0.45UH
.122	1-104-664-11		47MF 20%	25V	FB1103	1-410-396-41		0.45UH
123		CERAMIC CHIP		25V	FB1104	1-410-396-41		0.45UH
124		CERAMIC CHIP		50V	FB1105	1-410-396-41	FERRITE	0.45UH
127	1-163-235-11	CERAMIC CHIP		50V		1 440 000 04		4 5
	1 160 000 11		25X5A/25X5D/25X5I	•	FB1110		INDUCTOR CHIP	
	1-163-239-11	CERAMIC CHIP (KV-	33PF 5% 25X5B/25X5E/25X5I	50V K/25X5L/25X5U)	FB1111			6.8UH (KV-25X5A/25X5D/25X5R) 4.7UH (KV-25X5B/25X5E/25X5K, KV-25X5L/25X5U)
1128	1-163-239-11	CERAMIC CHIP	33PF 5%	50V	FB1112	1-412-002-31	INDUCTOR CHIP	•
1129		CERAMIC CHIP		25V				
			5X5B/25X5E/25X5K	/25X5L/25X5U)	FB1113	1-412-002-31	INDUCTOR CHIP	4.7UH (KV-25X5B)
1130	1-110-501-11	CERAMIC CHIP		16V				, ,
		(KV-2	5X5B/25X5E/25X5K,	/25X5L/25X5U)		< IC	>	
1131	1-164-005-11	CERAMIC CHIP	0.47MF	25V	IC1101	8-759-522-62	IC TDA9870	(KV-25X5A/25X5D/25X5R)
		(KV-2	5X5A/25X5B/25X5D/	/25X5R)		8-759-466-48	IC TDA9875P	(KV-25X5B/25X5E/25X5K/
L132	1-104-664-11	-	47MF 20%	25V				KV-25X5L/25X5U)
1133	1-164-004-11			25V	IC1102	8-759-998-98	IC LM358D	(KV-25X5A/25X5D/25X5R)
1135		CERAMIC CHIP		50V (KV-25X5B)			IC UPC4558G2	(KV-25X5B/25X5E/25X5K/ KV-25X5L/25X5U)
1127	1 104 664 11	EI ECM	47ME 000		T01102	0 750 204 57	TO DOMESSO LOS	
1137	1-104-664-11	LLECT	47MF 20%	25V (KV-25X5B)	IC1103	ō-139-394-5/	IC PST593C-MMP-	-4r
1138	1-163-109-00	CERAMIC CHIP	47PF 5%	50V (KV-25X5B)		< COI	T >	
1143	1-163-005-11	CERAMIC CHIP	470PF 10%	50V	L1101	1-408-596-31	INDUCTOR	2.7UH (KV-25X5B/25X5E/25X5K, KV-25X5L/25X5U)
L144	1-163-005-11	CERAMIC CHIP	470PF 10%	50V	L1113	1-408-600-31	INDUCTOR	5.6UH (KV-25X5B)
145	1-163-077-00	CERAMIC CHIP	0.1MF 10%	25V	L1114	1-410-671-31	INDUCTOR	47UH
L146	1-164-005-11	CERAMIC CHIP	0.47MF	25V	L1115	1-408-599-31	INDUCTOR	4.7UH
	1-164-005-11	CERAMIC CHIP	0.47MF	25V				
1147				0.517	71116	1-408-599-31	TNDIICTOR	4.7UH
	1-164-005-11	CERAMIC CHIP	0.47MF	25V	L1116	1 400 333 31	INDUCTOR	4.700
L147	1-164-005-11	CERAMIC CHIP	0.47MF	237	L1117	1-410-671-31		47UH (KV-25X5B)

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REF. NO.	PART.NO	DESCRIPTION	RE	MARK	REF. NO.	PART.NO	DESCR	IPTION		RE	MARK
	< TR	ANSISTOR >			R1168	1-216-033-00	RES,CHIP	220	5%	1/10W	(KV-25X5B)
					R1169	1-216-049-00	RES,CHIP	1K	5%	1/10W	(KV-25X5B)
Q1112	8-729-620-06	TRANSISTOR 2SC3052-	EF (KV-25X5B)		R1170	1-216-001-00	RES,CHIP	10	5%	1/10W	(KV-25X5B)
Q1113	8-729-620-06	TRANSISTOR 2SC3052-	EF (KV-25X5B)		R1171	1-216-045-00	RES,CHIP	680	5%	1/10W	(KV-25X5B)
Q1114	8-729-216-22	TRANSISTOR 2SA1162-	G (KV-25X5B)		R1172	1-216-190-00	RES,CHIP	470	5%	1/8W	(KV-25X5B)
Q1115	8-729-620-06	TRANSISTOR 2SC3052-	EF (KV-25X5B)								
					R1173	1-216-049-00	RES,CHIP	1K	5%	1/10W	(KV-25X5B)
	< RES	SISTOR >			R1174	1-216-085-00	RES,CHIP	33K	5%	1/10W	
					R1175	1-216-085-00	RES,CHIP	33K	5%	1/10W	
JR1105	1-216-295-00	SHORT 0			R1176	1-216-085-00	RES,CHIP	33K	5%	1/10W	
JR1112	1-216-295-71	CONDUCTOR CHIP			R1177	1-216-085-00	RES,CHIP	33K	5%	1/10W	
JR1113	1-216-295-71	CONDUCTOR CHIP									
					R1178	1-216-073-71	RES,CHIP	10K	5%	1/10W	
R1101	1-216-073-00	RES, CHIP 10K	5% 1/10W								
R1102	1-216-073-00	RES, CHIP 10K	5% 1/10W			< CRY	STAL >				
R1103	1-216-035-00	RES,CHIP 270	5% 1/10W								
R1105	1-216-035-00	RES,CHIP 270	5% 1/10W		X1101	1-767-813-21	VIBRATOR,	CRYSTAL			
R1108	1-216-057-00	RES, CHIP 2.2K	5% 1/10W								
		(KV-25X5A/	25X5B/25X5D/2	5X5R)	******	******	******	*****	*****	*****	******
R1110	1-216-025-00	RES,CHIP 100	5% 1/10W								
R1111	1-216-025-00	·									
R1113	1-216-023-00	·	=								
R1116	1-216-075-00	·	•	ED /SEVED)							
KIIIO	1-216-293-00		(KV-25X5A/25X 0.50% 1/10W	COU/ ZOAOR)							
	1-210-009-11		0.50% 1/10W 25X5E/25X5K/2	5X5L/25X5U)							
R1117	1-216-073-00	RES,CHIP 10K	5% 1/10W								
		·	25X5E/25X5K/2	.5X5L/25X5U)							
R1118	1-216-682-11		0.50% 1/10W	, ,							
			25X5E/25X5K/2	5X5L/25X5U)							
R1121	1-216-065-71			. ,							
R1122	1-216-065-71	RES,CHIP 4.7K	5% 1/10W								
R1123	1-216-065-71	RES, CHIP 4.7K	5% 1/10W								
R1124	1-216-073-71	RES, CHIP 10K	5% 1/10W								
R1125	1-216-065-71										
R1126	1-216-073-71										
R1130	1-216-073-00	RES,CHIP 10K	5% 1/10W								
			(KV-25X5A/25X	(5D/25X5R)							
R1134	1-216-073-00	RES, CHIP 10K		•							
		,	(KV-25X5A/25X	(5D/25X5R)							
R1152	1-216-035-00	RES,CHIP 270		(KV-25X5B)							
R1153	1-216-025-00	RES,CHIP 100	5% 1/10W	(KV-25X5B)							
R1154	1-216-067-00	RES, CHIP 5.6K	5% 1/10W	(KV-25X5B)							
R1160	1-216-230-00			(KV-25X5B)							
R1161	1-216-190-00			(KV-25X5B)							
R1162	1-216-061-00			(KV-25X5B)							
R1163	1-216-230-00	RES,CHIP 22K	5% 1/8W	(KV-25X5B)							
R1164	1-216-073-00			•							
-		•	5X5E/25X5K/25	5X5L/25X5U)							
R1165	1-216-295-00		(KV-25X5A/25								
R1167	1-216-025-00			KV-25X5B)							
	, ,		, /-	,	l						

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
	< MISCELLANEOUS >					REMOTE COMMANDER	
	******					******	
\triangle		COIL, DEMAGNETIZATION					
		MAGNET, DISC; 10MM Ø			1-475-765-11	COMMANDER STANDARD TY	PE (RM-883)
		MAGNET, ROTATABLE DISC					
Δ		TRANSFORMER ASSY, FLYB	ACK (NX1680-U2B4)	******	*****	*******	******
	1-503-902-11	SPEAKER (15X6.5CM)					
Δ	1-571-433-21	SWITCH, PUSH (AC POWER	.)				
Δ	1-756-286-11	CORD, POWER (KV-25X5A	/25X5B/25X5D/25X5E/				
		KV-25X5K	:/25X5R/25X5U)				
Δ		CORD, POWER FILTER (UK					
	1-693-418-11	TUNER (TELE9-001A) (KV	7-25X5A/25X5B/25X5D/ 7-25X5L)				
	8-598-432-00	TUNER (BTP-AC411) (KV-	25X5E/25X5K)				
		TUNER (BTP-AC402) (KV-	•				
		TUNER (BTP-AU611) (KV-					
		PICTURE TUBE (SD-257)	· ·				
Δ	8-451-404-23	DEFLECTION YOKE (Y25GX	ABA)				
Δ	8-733-254-76	ITC					
*****	*****	*******	******				
	ACCESSORIES AND PACKAGING MATERIALS						
	***	*******	*****				
	*4-042-476-01	BAG, PROTECTION					
		INDIVIDUAL CARTON					
		CUSHION (UPPER) (ASSY)					
		CUSHION (LOWER) (ASSY)					
		MANUAL, INSTRUCTION	(KV-25X5A)				
		(ITALIAN)	(111 201011)				
	4-204-043-51	MANUAL, INSTRUCTION	(KV-25X5B)				
	4-204-045-51	•	AN/ITALIAN/DUTCH)				
	4-204-074-11	MANUAL, INSTRUCTION	(KV-25X5D)				
	1 201 0/1 11	(GERMAN/GREE					
		ENGLISH/TUR					
		ENGLISH/ TOX	IXIOH)				
	4-204-043-71	MANUAL, INSTRUCTION	(KV-25X5E)				
		(SPANISH)	\ <u></u>				
	4-204-043-81	MANUAL, INSTRUCTION	(KV-25X5E)				
		-	WEGIAN/HUNGARIAN/				
		•	DANISH/SWEDISH)				
		·	,				
	4-204-043-61	MANUAL, INSTRUCTION	(KV-25X5L/25X5U)				
		(ENGLISH)	· · ·				
	4-204-074-91	MANUAL, INSTRUCTION	(KV-25X5K)				
		•	SH/POLISH/HUNGARIAN)				
	4-204-074-91	MANUAL, INSTRUCTION	(KV-25X5R)				
		•	GARIAN/ENGLISH)				
			·				
				1			